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AUGUST 12 1961

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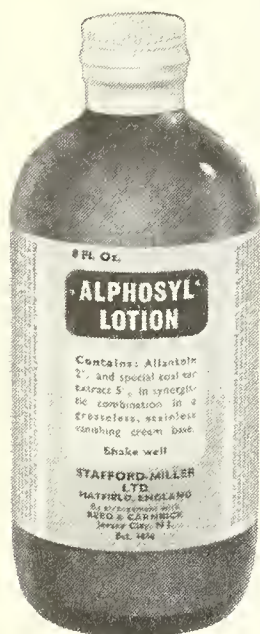
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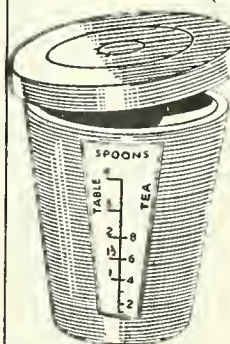
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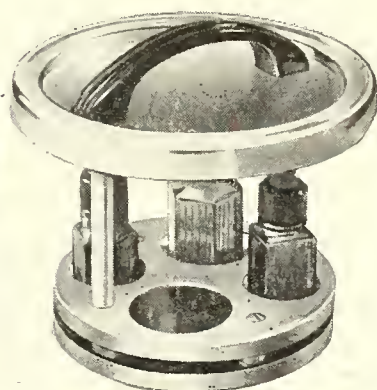
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ANTI-COLIC TEATS  
FOR NEAREST TO  
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Pay for your baby's Diary

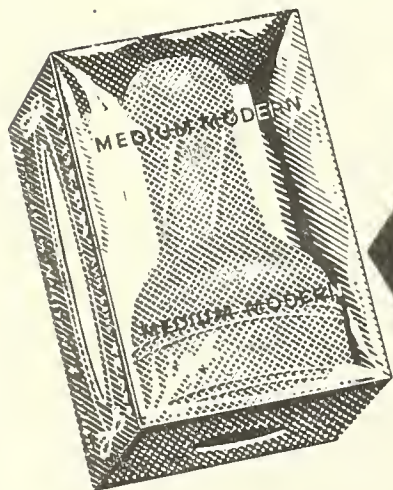
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now appearing in the mass NATIONAL PRESS CAMPAIGN

This is the **CANNON** baby...

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The advertisements emphasize all the unbeatable qualities that make Cannon feeding 'nearest to natural' and end the feeding time temperament common with inferior products.



Supporting your sales of  
**CANNON** MODERN Anti-colic Teats  
*The preferred baby teat today!*

ORDER NOW TO ENSURE AMPLE SUPPLIES!



THE ONE WORD

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—superbly packed

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24's in foil. Also in tubes of 20

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12's in clear foil, and in bottles of 25 (C.O.B.)

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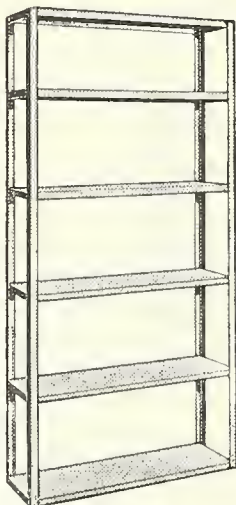
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OR ANY SIZE MADE TO ORDER.

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Shelves adjustable  
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Top quality stove  
enamelled green finish

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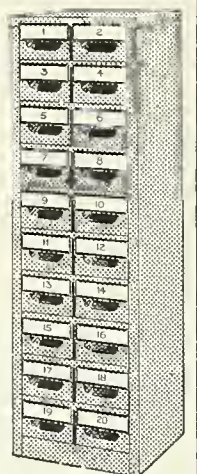
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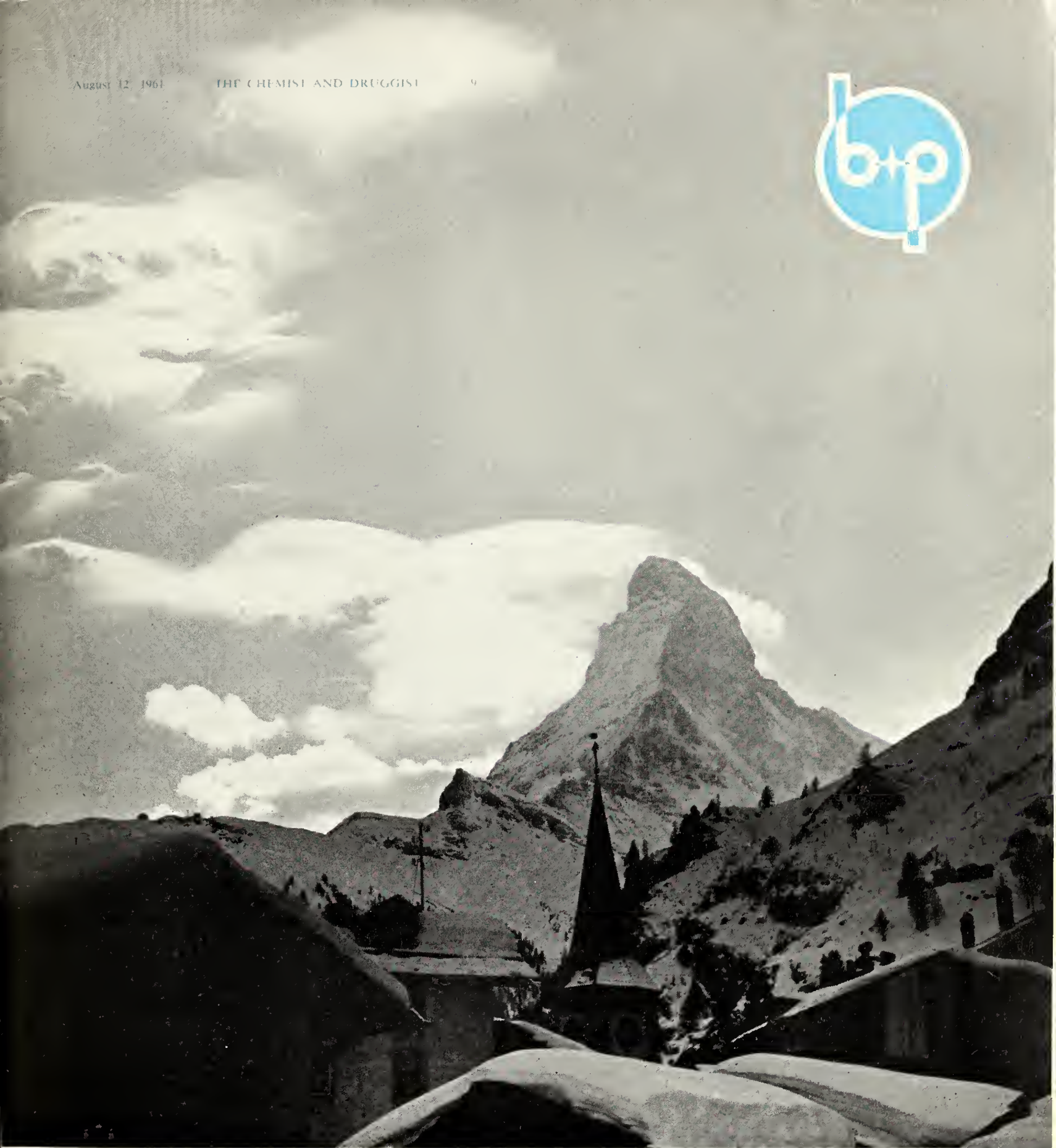
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13" wide  
12" deep.

20 drawers  
5" wide  
3" high  
11½" long.



Write now for  
list  
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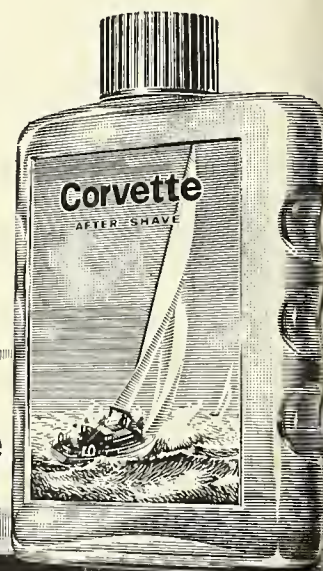
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Telephone : ACOrn 6771/2

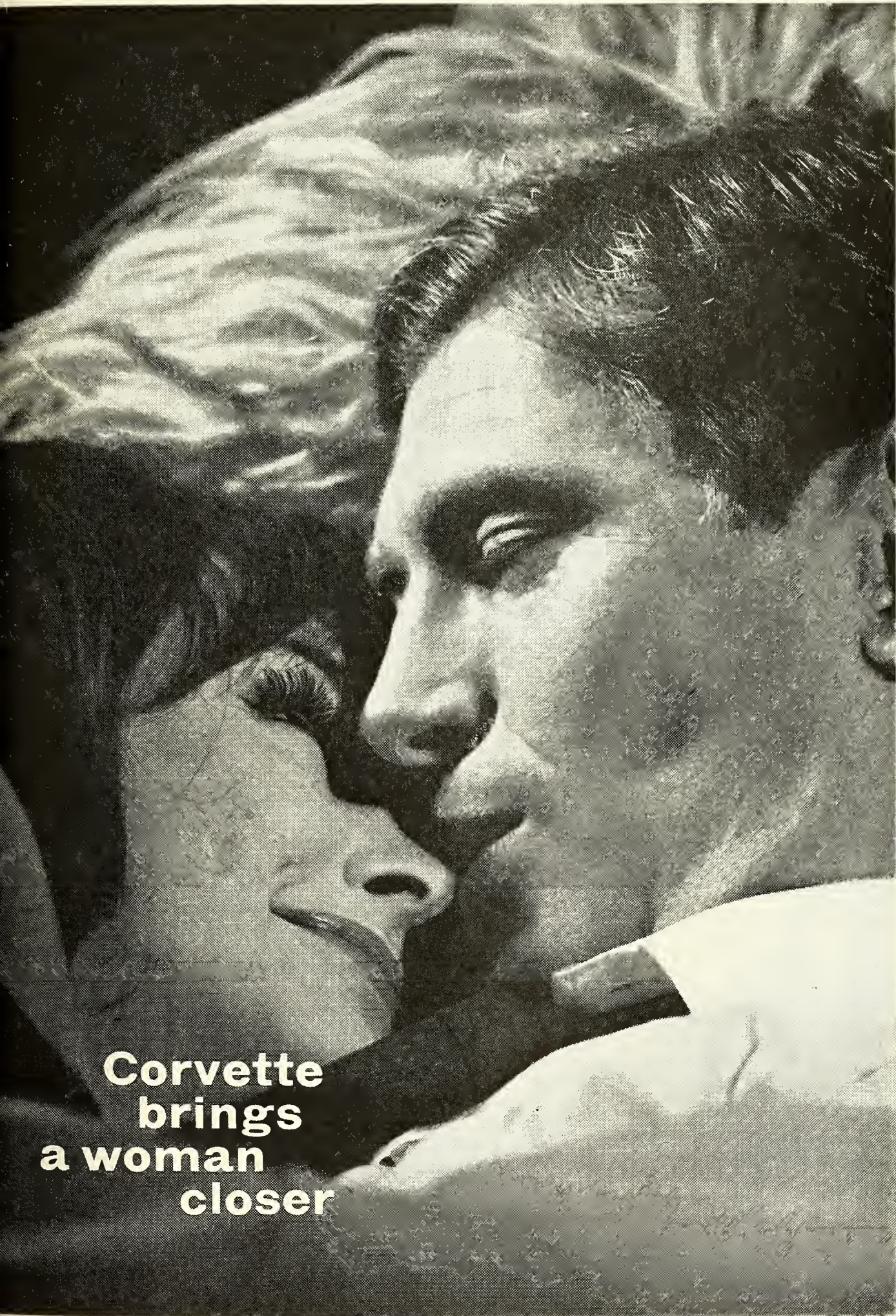
# A Sizzling Campaign for New Corvette range

***In the big national papers now  
...runs right through to Christmas***

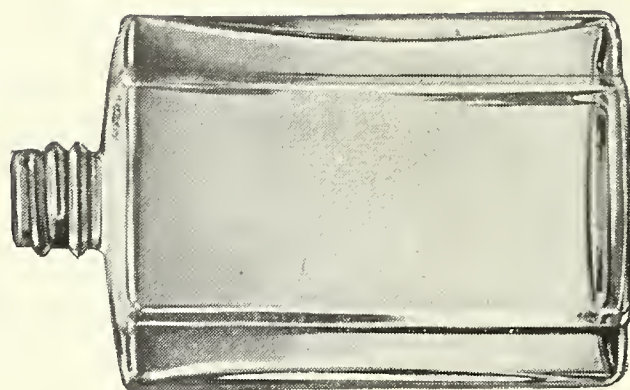
Big-space ads with sizzling pictures like this will stop more than 13 million men—and their girl friends—in Corvette's biggest-ever campaign. A whole lot of people are going to look for Corvette. Display the Corvette range where they'll see it and keep your cash register ringing!



CORVETTE LTD · NEW BOND STREET · LONDON W1



**Corvette  
brings  
a woman  
closer**



*High Quality Glassware*

**THE INTERNATIONAL BOTTLE CO., LTD.**

**140 PARK LANE LONDON W.1**

Telephone MAYfair 6992 (5 lines) Telegrams AUTREFOIS, AUDLEY, LONDON



*Designers and Manufacturers of*



**A new revolutionary shampoo-type  
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# Color-Match

trade mark

*as easy to use as successful Color-Glo*

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to see**

**COLOR-MATCH advertising  
now appearing in**

**WOMAN • WOMAN'S OWN  
EVERYWOMAN  
WOMAN & BEAUTY  
MODERN WOMAN  
SUNDAY EXPRESS**

*Make sure you have a complete range of  
Color-Match shades to meet the  
immense demand*

*made in six beautiful shades  
of brown*

**Dark Brown  
Dark Warm Brown  
Mid-Brown  
Mid-Warm Brown  
Light Brown  
Light Golden Brown**

Retail Price 5/8 per bottle  
Trade Price 33/2 per doz.  
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\* COLOR-MATCH colours grey hairs to match the rest of the hair—without changing its natural basic colour.

\* COLOR-MATCH is absolutely harmless. It needs no skin test. It is a liquid, as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

\* COLOR-MATCH is certain to create an entirely new hair colouring market, from which you will earn big new profits.



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National launch in September

# Mimosept

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# Mimosept

Greater absorbency—with D-5 deodorant

# Mimosept

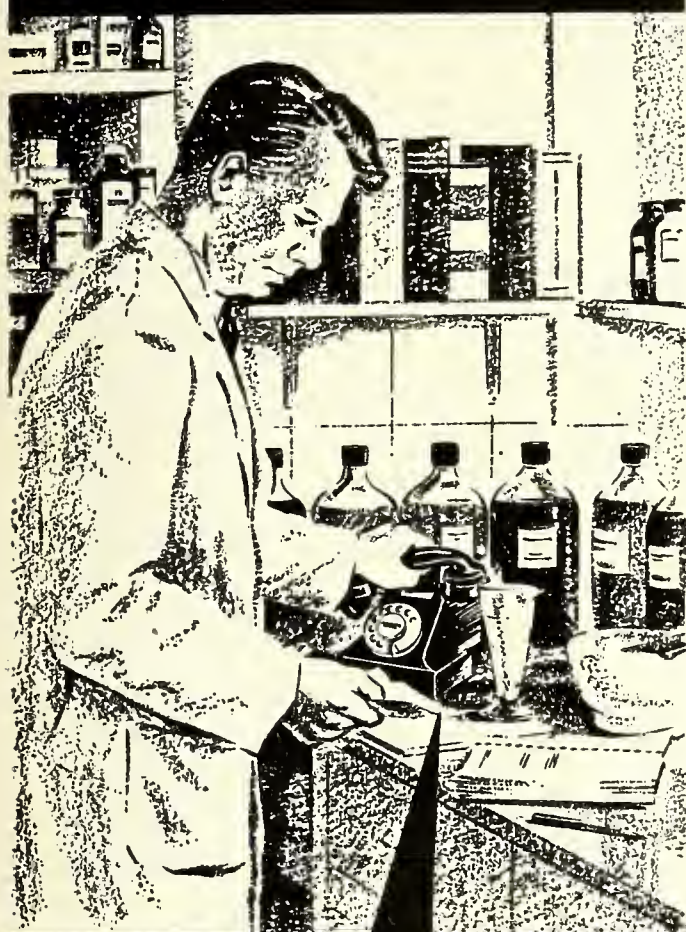
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★	ARDwick	5131
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LIMITED****THE CHEMIST  
AND DRUGGIST**

ESTABLISHED 1859

The weekly newspaper for pharmacy and  
all sections of the drug, pharmaceutical and  
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 176

August 12, 1961

No. 4252

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**BRENTFORD · ENGLAND · ISLeworth 4111**

*Full particulars available on request*

# The CHEMIST AND DRUGGIST

Volume 176

AUGUST 12, 1961

No. 4252

## The 1959 Codex

### RECENT AUTHORISED AMENDMENTS

THE Council of the Pharmaceutical Society has authorised the publication of the following amendments to Part VI of the British Pharmaceutical Codex 1959:—

- P. 979 EYE LOTIONS  
 P. 1019 LOTION OF LEAD  
 LOTION OF LEAD, EVAPORATING  
 P. 1027 MIXTURE OF ACETYLSALICYLIC ACID  
 MIXTURE OF ACETYLSALICYLIC ACID FOR INFANTS  
 P. 949 DRAUGHT OF MALE FERN EXTRACT  
 DRAUGHT OF PARALDEHYDE  
 P. 1034 MIXTURE OF FERROUS SULPHATE  
 MIXTURE OF FERROUS SULPHATE FOR INFANTS  
 P. 1037 MIXTURE OF GENTIAN WITH PHENOBARBITONE, ALKALINE  
 P. 1051 MIXTURE OF SODIUM CHLORIDE, COMPOUND

The directive that these preparations "should be freshly prepared" is amended to "must be freshly prepared."  
 The directive that these preparations "should be freshly prepared" is amended to "should be recently prepared."

The following statement has been issued by the chairman of the Codex Revision Committee and the editor B.P.C.:—

"In the general monographs on eye-drops and eye lotions and in some individual monographs, it is directed that these preparations must or should be freshly prepared. We have been informed that some of these preparations are being supplied to pharmacists by manufacturers, and that consequently they may be dispensed an appreciable time after they have been made. In the General Notices to the Codex, it is stated (p. xxviii) that the phrase "freshly prepared" indicates that the preparation should be made not more than twenty-four hours before it is issued for use. In the next revision of the Codex it is proposed to use the word "must" in place of the word "should" in the foregoing statement. If any preparation to which this directive is applied in the Codex is dispensed from a stock which has been kept for more than twenty-four hours, it does not comply with the B.P.C. requirements."

## Pharmaceutical Society

### WORK OF SCIENCE COMMITTEES

A REPORT of the work of the Science Committees of the Pharmaceutical Society's Department of Pharmaceutical Sciences mentions that the

Pharmacognosy Science Committee consisting of Professor Fairbairn (chairman), Drs. S. B. Challen, F. Fish, J. M. Rowson, E. J. Shellard, T. E. Wallis, and Messrs. N. L. Allport, S. G. Harrison, and G. R. A. Short, in addition to promoting research in pharmacognosy, was asked to advise on the maintenance and extension of the collection of crude drugs and the herbarium. A second task has been to consider a request from the Botanical Drug Import Merchants' Section of The London Chamber of Commerce to provide standards for crude drugs which occurred widely in commerce but for which no standards existed in current editions of the B.P. and B.P.C. The Committee have compiled a list of subjects requiring investigation and members have undertaken to advise on certain of these. A list of the names of a number of persons willing to undertake research is being prepared. Amongst other work which has been suggested, detailed studies of some of the unofficial drugs would be necessary before adequate specifications could be prepared. It was agreed that such pharmacognostical work was specially suited to practising pharmacists who might not have elaborate laboratory facilities but who would be able to undertake

microscopical and macroscopical studies of vegetable drugs.

It was proposed that a collection of transparencies showing British poisonous plants should be formed and that this collection should include photographs which would show the appearance of each plant and also its usual habitat as well as characteristic parts of the plant. Copies could then be made available to branches of the Society and to other institutions. It has been agreed that the collection should be extended to include transparencies illustrating medicinal plants. The Committee thought that pharmacists and botanists interested in plant photography might be prepared to help in building up the collection.

The work of the science committees on pharmaceuticals, pharmaceutical chemistry and pharmaceutical analysis is also dealt with in the report.

## Advertising Association

### VIEWS ON USING OLD NAMES

THE advertisement investigation department of the Advertising Association has considered whether it was legitimate to retain the original brand name of a medicinal product which had been entirely re-formulated and offered to the public for a different purpose. It has decided that the new advertising could be misleading because people accustomed to taking the product in its original form might go on buying it without knowing that the



ANGLO-RUSSIAN CONTACTS: Mr. Malcolm Goodchild (sales manager of Charles Bedeman, Ltd.) presents to one of the models at the recent Soviet trade exhibition in London a special gift pack containing products of the company (shampoos, soaps, etc.). At left: Mr. Boris Gordeev (director of the Fair) visits the Gillette factory, Great West Road, Brentford, and is shown by the managing director of the Gillette Safety Razor Company (Mr. Gordon Claisse, right) razor blades undergoing a sharpening process. Mr. Gordeev said that he hoped that Russia would soon be importing more blades from the company.

formula had been changed. It could also be dangerous because doctors might not be aware of the new formula, and if they were, they might not know which version the patient had been "self-prescribing and taking." For those reasons the Advertising Association was of the opinion that when both the formula and purpose of a medicinal product were changed, the brand name should also be changed. Member companies of the Advertising Association have been notified accordingly.

## Research Awards

### CARLSBERG-WELLCOME FELLOWSHIPS

THE Carlsberg Foundation, Copenhagen, Denmark, and the Wellcome Trust have awarded three Carlsberg-Wellcome travelling research fellowships for 1960-61. The successful candidates are Dr. C. Poulsen (senior lecturer, Royal Veterinary and Agricultural College, Copenhagen), who will work at the Medical Research Council toxicology research unit, Carshalton, Surrey, on the neurotoxic influence of alicyclic phosphates and similar compounds; Dr. A. F. Hayward (anatomy department, Glasgow University), who will work at the Carlsberg laboratory, Copenhagen, studying the electron microscopic appearances of pinocytosis, and Dr. S. L. Rowles (a member of the external scientific staff of the Medical Research Council at the School of Dental Surgery, Birmingham), who will work at the Royal Veterinary and Agricultural College, Copenhagen, on the chemistry of the calcium phosphates with special reference to those occurring in oral tissues.

## Chemist Contractors

### SUPPORT FOR N.H.S. COMMITTEE

AT a meeting of the Birkenhead Pharmaceutical Committee held in Birkenhead on July 14, the following resolutions were passed:

"This meeting of contractors and pharmacists employed in retail pharmacy under the National Health Service in the Birkenhead Executive Council area is unanimously agreed:

- That we wholeheartedly endorse the steps that have been taken by the Central N.H.S. (Chemist Contractors) committee.
- That we undertake to support any future action that is considered necessary by the Central N.H.S. (Chemist Contractors) committee and is agreed to by the majority of contractors.

Similar resolutions have been adopted at meetings of retail pharmacists in Leeds and Portsmouth.

## Ionising Radiations

### NEW INDUSTRIAL SAFETY CODE

A SAFETY code for workers exposed to ionising radiations in industry is laid down in the Ionising Radiations (Scaled Sources) Regulations, 1961 (S.I. 1470, H.M. Stationery Office, price 9d.), presented to Parliament by the Minister of Labour on August 3. Most of the requirements will come into operation in six months' time, but those requiring notification of the use and disuse of ionising radiations in factories will be effective from August 15. The regula-

tions are designed to safeguard the health and safety of persons employed in factories and other places to which the Factories Acts apply who may be exposed to ionising radiations from sealed radio-active substances, and from certain machines such as x-ray apparatus. Maximum permissible doses of radiation are laid down, and the regulations include requirements for the medical supervision of workers and for the wearing of film badges to measure the individual doses received.

## Aerosol Development

### CONGRESS AND EXHIBITION

THE third international congress of the Federation of European Aerosol Associations will be held in Lucerne, Switzerland, October 4-8. It will open with a paper on the development of aerosol packs in Europe; other contributions are as follows:—"Aerosol containers—raw material, manufacturing, equipment"; "Aspects of the problem of air disinfection"; "Valves characteristics"; "Weighing problems in aerosol filling"; "The influence of constituents on the physical structure of homogeneous foodstuffs"; "Examination of the inflammability of aerosols"; "Development of pharmaceutical and medicinal aerosols in the U.S.A."; "Aerosols in Italy"; "Formulation of aerosol paints and lacquers." For the first time an

exhibition of aerosol products is to be held in conjunction with the congress. Both events are being organised by the International Aerosol Association, Waisenhausstr. 2, Zurich 1, Switzerland.

## Pesticides

### DRAFT COMMON NAMES

COMMENTS on the following suggested names for pesticides are sought by the British Standards Institution. They should be addressed to Mr. D. G. Berry, at the Institution, 2 Park Street, London, W.1.

PROPOSED COMMON NAME	CHEMICAL NAME
Dichlorprop	2-(2,4-dichlorophenoxy) propionic acid
Thioquinox	2-thio-1,3-dithiolo(4,5-b) quinoxaline

## Sulphuric Acid

### PRODUCTION IN SECOND QUARTER

PRODUCTION of sulphuric acid in the second quarter of the year by the members of the National Sulphuric Acid Association, Ltd., amounted to 664,915 tons (calculated as 100 per cent, H<sub>2</sub>SO<sub>4</sub>). The amount sold in the same period was 676,793 tons, the drug and fine chemical industries taking 5,680 tons. Figures for Government plants are not included.

## EXAMINATION RESULTS

### Successful "finals," entrance and intermediate candidates

THE following candidates were successful in the examinations of the Pharmaceutical Society held in June and July in England and Wales:—

#### INTERMEDIATE EXAMINATION:

England and Wales: EVANS, Hilary J., Swansea; GRIFFITH, W., Glan Conway; HAQUE, Shameen, Gaya; OKONGWU, A. C., Nigeria. Scotland: MORAN, C. K., Castleford; WHITE, J. R. G., Macclesfield.

PHARMACEUTICAL CHEMIST QUALIFYING EXAMINATION (3-year course) Part III (finals):

†Breithaupt, W., Liverpool; †Carrick, J., Sunderland; †Fenwick, R. W., Sunderland; †Marshall, Kathleen, Sunderland; †May, S. H., Sutton Coldfield; †Nimmo, I. D., Middlesbrough; †Patel, S. R., Sunderland. † Certificate being withheld pending evidence of practical training or age.

Part I (a = pharmacognosy I, b = pharmaceutical chemistry I, c = physiology): Scotland: ADDISON, Marjorie F. McLeod, Edinburgh (a, b); CORBETT-REAKES, G. F., Cowdenbeath (a, b, c); CRAWFORD, G. McL., Cowdenbeath (a, b, c); CUNNINGHAM, S. C., Glasgow (a, b, c); DOWNES, G. F., Altrincham (a, b, c); DUNN, Joan S., East Linton (a, b, c); FITZPATRICK, K., Dundee (a, b, c); FOWLIE, D. A., Aberdeen (a, b); FOX, G. A. A., Peebles (a, b, c); GILLESPIE, Patricia A., Aberdeen (a, b); GREIG, G. D., Dundee (b); HENDERSON, J. R., Portsoy (a, b, c); HENDERSON, R. G. D., Dundee (a, b); JARVIS, J. C., Carnforth (a); KYAM, Li K., London (a, b, c); LAKHANI, Indira K. N., Nairobi (a, b, c); LEES, Irene E. G., Dundee (a, b, c); McALLISTER, M. H., Montrose (a, b); McFARLANE, A. M., Fort William (a, b, c); McHARDY, P. R. J., Aberdeen (a, b, c); McINDOE, Mary P. G., Armadale (a, b); MACONOCHE, S. R., Dundee (a, b, c); McPETRIE, Margaret F., Aboyne (a, b, c); MEIER, Diana G. R., Crossford (a, b); MORRIS, Diana M., Newport (a, b, c); PASHWA, Jamila M., Dundee (b); POOLE, Joyce H., Edinburgh (a); RICHARDSON, Frances, Whitley Bay (a, b); ROBB, Catherine B., Bathgate (a, b); ROBERTSON, Hilda M., Dundee (a, b, c); ROSS, Patricia A., Dundee (a, b, c); SEHMI, Jagjit S.,

London (a, b, c); SHAW, Martha R., Eskbank (a, b); SHUTTLEWORTH, Florence J., Blackpool (a, b, c); SMITH, Valerie M., Montrose (a, b); SUTCLIFFE, S. F., Preston (a, b, c); SWANSON, K. H., Aberdeen (a, b); TODD, W. D., Peebles (a, b, c); URE, Elizabeth McK., Coatbridge (a, b, c); WALLACE, Moira M. A., Balerno (a, b); WEBSTER, Eileen, Laurence Kirk (a, b, c); WILKIE, Betsy M., Dunfermline (a, b, c); WORKSWICK, Alan, St. Annes-on-Sea (a, b, c).

ENTRANCE EXAMINATION (a = biology, b = chemistry, c = physics):

ALCOCK, R. A. W., Doncaster (c); ATKINSON, J. McC., Crewe (c); BAKER, Patricia B., Southport (c); BENNETT, A., Tillicoultry (b, c); BRUCE, Adrienne L., Aberdeen (a, b, c); CAMERON, Margaret I., Edinburgh (b); CASSIE, Jean, Fraserburgh (c); CHRISTIE, D. M., Burntisland (a, b, c); DENNIS, D. J., Edinburgh (a, c); DEWAR, R. H., Whitburn (a, b, c); ELRICK, Jean G., Perth (a, b, c); EVISON, Maureen, Chester (c); FAIRBROTHER, Jean, Burton-on-Trent (c); FAIRGRIEVE, P. S., East Linton (c); GILMOUR, Margaret J., Bury (a, b, c); GOWANS, Margaret R., Melrose (a, b, c); GRIFFITHS, W. W., Birkenhead (c); HARRIS, J., Southsea (c); HENDRY, Rhona R., Forfar (a, b, c); HERD, J. C., Bonnyrigg (a, b); HINSHELWOOD, A. J. W., Edinburgh (a, b, c); HODSKINSON, Anne C., Birkenhead (c); HOWARD, C. F., Norwich (c); IDOWU, B. O., London (c); KOO MUK SANG, Fi Cheong L. M. J., Edinburgh (a); LAWRENCE, A. G., Bournemouth (c); LEWIS, Ann M., Chester (c); McCALUM, Julia, Edinburgh (a); McCARNEY, M. A., Hereford (a); MARTIN, R. I., East Calder (a, b); MATHESON, A., Stornoway (a, b); MATHESON, Anne, Cove Bay (a); MICHIE, C. A., Aberdeen (a, b, c); MILLAR, Patricia M., Kinghorn (b); MORRISON, J. G., Dysart (a, b, c); MOWAT, Ann K., Edinburgh (a); MUNGALL, Janet M., Aberdeen (a, b, c); NICOL, Marlene M., New Elgin (a, b); PAIRMAN, Doris R., Edinburgh (a); REID, Patricia S., Huddersfield (a, b, c); RENSHAW, Julia A., Nantwich (c); REYNOLDS, J. E. F., Haddington (b, c); RODGERS, A. W., Sutton Coldfield (a); ROSS, Hilary E., Nine Mile Burn (a, b); SHARMAN, P. K., Parkstone (c); SWANSON, T. G., Peebles (a, b); WALKER, Margaret J., Burntisland (a); YACOMENT, J. A., Crieff (b, c).

## NEWS IN BRIEF

THE degree of doctor of philosophy has been awarded to B. D. Vora, School of Pharmacy, University of London.

A BRITISH Standard Specification for aerosol dispensers in metal and glass containers is under consideration. Certain dimensional features may be specified.

DELEGATES attending the fifth international Congress of Biochemistry in Moscow, U.S.S.R., August 10-16, include about 200 from research establishments in the United Kingdom.

HOSPITAL Building Note 19 (H.M. Stationery Office, 1s. 6d.) gives guidance on the design of a medical photography and medical illustration department for general and teaching hospitals.

A THIEF, who waited until the staff had left for lunch, entered the premises of D. T. Evans, Ltd., chemists and opticians, 1 High Street, Margate, Kent, through a side door, and stole £30 from the shop till.

A SUBJECT group of the Society of Chemical Industry, on effluents, is being formed under the chairmanship of Dr. B. A. Southgate, director of the Water Pollution Research Laboratory of the Department of Scientific and Industrial Research.

SALES of pharmaceutical goods by 161 co-operative societies in the United Kingdom during the period May 1-27 showed the following percentage changes as compared with the same period in 1960: Midland +8.07; Northern -2.14; North-east +8.29; North-west +4.57; Scottish +6.77; Southern +5.41; South - western +34.01; Western +8.36 (Great Britain +6.55).

MR. F. W. Sambidge has relinquished the post of honorary secretary of Birmingham and Midland Hospitals Pharmacy Committee, a position he has held since the committee was formed in 1946. The new officers are: *chairman*, A. E. Marston, Queen Elizabeth Hospital, Edgbaston, Birmingham, 15; *general secretary*, P. Crees, Dudley Road Hospital, Birmingham, 18; *assistant secretary*, Miss R. Jenkins, Birmingham Accident Hospital, Birmingham, 15.

A STATISTICAL study of the results of over 10½ million examinations made by mass miniature radiography units between 1955 and 1957 (Studies on Medical and Population Subjects, No. 17) (H.M. Stationery Office, price 15s.) shows that tuberculosis tends to be more prevalent among girls and young women than among men in the same age groups, but after the age of 35 the men become more prone to infection. Nearly 5,000 cases of cancer of the lung were among certain non-tuberculous diseases diagnosed during the same period by mass radiography.

## N.H.S. STATISTICS

In BIRMINGHAM in the year ending March 31, pharmaceutical services cost £1,671,718.

In DERBY during 1960-61 the average cost per prescription was just over 82d. The cost of the Health Service was £1,431,163 compared with £1,060,139 for 1960.

# TOPICAL REFLECTIONS

By Xrayser

## *As others see us*

A famous poet once asked that some power would give us the gift to see ourselves as we are seen by others. That, I think, may be taken as a free translation of his lines. The power in the case of pharmacy has been the pen of a Dr. Goodenough, and he has not endeared himself to pharmacists by his article in the *People* to which you refer in your leader on p. 145. After reading your editorial comment, I acquired a copy of the newspaper in question so that I could savour the details. The doctor's text is hardly in the category of fair comment, nor is the tone dignified, but perhaps more will be gained in the long run by taking no further notice of the article. I have mentioned it to a number of pharmacists of my acquaintance and there has been no reference to it by customers, who may not have read it or may not even buy the paper. If any have bought the paper and read the article, they have either been too good-mannered to speak of it or have not been sufficiently impressed to think the matter worth mentioning. Reading such an article, with its glaring inaccuracies, obvious to those who practise pharmacy, has the effect on the reader of making him wonder if other articles on other subjects are to be relied upon as presenting a true picture. I have never found any public reaction other than appreciative of the pharmacist's rôle in the Health Service. What pharmacy has to do is convince the Ministry of Health of the justice of its claims, and I should be surprised to find that Dr. Goodenough was one of the experts at the Ministry with whom our negotiators have to deal. I agree with all you have said in your leader, which puts the position quite fairly, and although it would have been easy to reply in kind, there are occasions when one exercises commendable restraint.

## *Painful pence*

The mail continues to bring its daily quota of prices affected by the "little Budget" of the Chancellor of the Exchequer, and I offer my heartfelt sympathy to those who toil in the compiling of your Quarterly Price List. In many cases the increase is so small that it appears to be irritant rather than deterrent, for many of the prices are affected to the extent of only a penny. But it is only a short time since many manufacturers increased their prices by similar margins and the amount of work involved in price adjustments in both wholesale and retail transactions is unlikely to put the Chancellor at the top of a popularity poll for some time to come.

## *Still unheeded*

The Council of the Pharmaceutical Society must feel justified in having entered the lists in the question of the ethical aspects involved in the situation arising out of Ministerial statements in regard to the 2s. prescription levy. Despite a half-hearted assurance by the Minister of Health that nothing he has said alters in any way the professional responsibilities of the pharmacist, Mr. John MacLay (Secretary of State, Scotland), whose relation to matters of health in Scotland is the same as that of the Minister of Health in England and Wales, has shown, in a written reply on August 1 (p. 143), that the lesson is still unlearned. Asked what instruction he had given chemists as regards the dispensing of prescriptions the retail cost of which was less than 2s., Mr. MacLay replied: "The general practice in such cases is to supply the item at the retail price, and I have made it clear to chemists that this is the course they are expected to follow." There is no alternative but to seek further interviews with those who are responsible for such statements; to point out the inconsistencies in the replies given at varying times; and to make ceaseless representation until the correct position is fully appreciated. Though the question was a Scottish one and therefore primarily one for the Scottish Department of the Pharmaceutical Society to deal with, the principle involved affects the country as a whole, and members will look to the Council of the Society to exert new and ever stronger pressure. The matter is urgent and extremely serious. There must be no weakening. That would not be lightly forgiven.

## TROPICAL PRODUCTS INSTITUTE

### Work on new drug and perfume sources

THE Tropical Products Institute of the Department of Scientific and Industrial Research has been expanding its economic and long-term research work to meet the needs of rapidly developing tropical countries, states the report of the Institute for 1960 (H.M. Stationery Office, price 3s.).

"This need reflects a trend away from short-term inquiries of, for example, a routine analytical nature—which have provided the principal part of the Institute's work in the past, and is more towards research and development problems which laboratories newly set up in these countries cannot undertake," writes Mr. E. S. Hiscocks, the director.

The report reveals that, as there may be potentially valuable new sources of drugs yet to be found in the Commonwealth, the Institute is continuing its work on the examination of plants from tropical territories. Any new sources of drugs could be of great economic benefit to the countries where the plants are indigenous. Already 314 plants have been tested and a number of alkaloid-containing plants have been found and are being subjected to further tests.

#### A New Perfume Source ?

The Institute is also playing a major part in the economic and commercial development of a plant whose flowers produce an oil which may give Northern Rhodesia a share in the perfumery trade. Already one soap manufacturer has bought trial consignments of the oil (called nindi) for use in toi-

let preparations. Later, if quality can be maintained at a reasonable price, it is expected to be used in soaps.

The plant was first discovered in the territory by two sisters, the Misses Gamwell, during the early thirties, and was named at Kew Gardens *Aeolanthus gamwelliae*, after the discoverers, since when oil from the plant has been produced spasmodically in very small quantities by a few European farmers in the Abercorn area of Northern Rhodesia.

At the time of its discovery, a sample of oil distilled from the flowers was examined at the Imperial Institute, London, from which the T.P.I. has evolved. It was found to have an unusually high content of geraniol and to be generally similar to palmarosa oil.

Early last year, Dr. G. B. Pickering, of the Institute, visited Northern Rhodesia and suggested to the Development Commissioner and European growers that the development of the oil, which has a high potential market value, should be expanded. A firm of still manufacturers has designed a small-scale distillation unit for the oil, in preparation for its production in the Province on a cwt. scale.

Using a method of distillation suggested by the Institute, it has been possible to obtain nindi oil from the flowers in better yields than previously. There have also been improvements in the quality of the oil in some instances, but the connection between the different qualities of oil and the methods of distillation is a scientific problem which still awaits solution, says the report.

Executive on the Standing Committee by means of its ex-officio members should give satisfactory co-operation between the two bodies and that, if any occasion arose which necessitated it, a meeting could take place between the officers and the secretaries of the two bodies.

The RESIDENT SECRETARY reported that at the last meeting of Council it was agreed to accept the resolution of the Branch Representatives' Meeting that a scale of dispensing fees for private prescriptions should be drawn up. A committee was appointed specially for that purpose and Mr. Hepburn was being invited to represent the Executive and Mr. M. M. McNeill was to represent the Pharmaceutical Standing Committee (Scotland). Mr. Grosset would also be a member of the committee.

## IN PARLIAMENT

REPLYING to a question by Mr. J. P. W. MALLALIEU on August 3, Mr. R. MAUDLING (President, Board of Trade) said that he had directed that when an application was made for the registration of a mark for non-alcoholic drinks and some similar foodstuffs, a search should be made for similar marks registered for "such things as drugs, disinfectants and cleaning materials." The converse would also apply. He also stated that in connection with the marks Sun-drops and Sun drop (see C. & D., July 22, p. 94), the directors of both companies had expressed to officials of the Board of Trade their sense of the importance of avoiding any confusion on the part of the public between their respective products.

#### Heroin

CAPTAIN H. KERBY asked the Secretary of State for the Home Department what was the annual quantity of heroin manufactured in the United Kingdom in 1960. In a written reply on August 3, Mr. R. A. BUTLER (Home Secretary) stated 66 kilos.

#### National Health Service

DR. D. JOHNSON asked the Minister of Health if he would state the percentage of the total cost of the National Health Service accounted by salaries and wages in each of the last five years. Mr. E. POWELL (Minister of Health) in a written reply on August 3, stated that including the gross remuneration of doctors, dentists, etc., for professional services, the percentage had been nearly 70.

#### Summer Time 1962

In the House of Lords, LORD HAWKE asked whether any decision had been taken about the period of Summer Time next year. EARL BATHURST in a written reply on August 3 stated it was proposed to repeat next year the arrangement experimentally adopted for 1961, by extending the period by three weeks in both spring and autumn. In due course Parliamentary approval would be sought for an Order in Council providing for Summer Time next year to run from March 25 to October 28.

The Houses of Parliament adjourned on August 4 until October 24.

## SCOTTISH DEPARTMENT EXECUTIVE

### Part I, an Internal or External Examination

A MEMORANDUM entitled "The Proposal that Part I of the Qualifying Examination should be held as an Internal Examination" was discussed at the meeting of the Executive of the Scottish Department in Edinburgh on July 12. The suggested procedure was approved subject to the condition that Part II and Part III of the examination would remain external examinations in which all candidates would sit the same theory papers. That safeguard was felt to be necessary because of the possibility that the standard of Part I might vary slightly in the different schools of pharmacy. If, however, Part II and Part III consisted of common examination papers set externally, the standard of the ultimate qualification would be maintained. The Executive expressed sympathy with the view that the teaching of Physiology and Pharmacology should be integrated, and urged that encouragement should be given to the teachers to do this as completely as possible.

At the opening of the meeting Mr. ANDREW OFFICER welcomed the members of the Executive who had been re-elected, namely, Messrs. Cowan, Keith, Park and Tait, and the two newly elected members, Messrs. R. Anderson and J. Macpherson, and said that he was sorry that they had not all been able to be present. It was agreed

to record the Executive's appreciation of Miss Jenkins' services to the Executive over the past nine years.

Mr. W. C. D. Bain, Aberdeen, was unanimously elected chairman and Mr. J. W. Goodchild, Brightons-by-Falkirk, was unanimously elected vice-chairman of the Executive. Mr. BAIN said he was deeply conscious of the honour shown to him and that he would do his best to deserve the confidence placed in him. He then paid tribute to the past chairman (Mr. A. Officer) and thanked him for all his services to the Executive and to pharmacy throughout the past two years. He then presented to Mr. Officer the past-chairman's badge.

Mr. Officer thanked the Executive, the resident secretary and the staff for the help and support he had received from them during his term of office.

It was agreed that at present no further purpose would be achieved by continuing the correspondence concerning the increased levy on prescriptions with the Department of Health for Scotland. It was noted with satisfaction, however, that the Department had stated that they would be ready to discuss the matter with the Executive at any time.

Regarding the possibility of closer co-operation with the Pharmaceutical Standing Committee (Scotland), it was agreed that the representation of the

## REPLIES SENT TO THE "PEOPLE"

### But Dr. Goodenough is "unrepentant"

UNDER a heading "Those Chemists: We still say we're right," the *People* published a very abridged version of a letter from Mr. J. Wright, secretary, Central N.H.S. (Chemist Contractors) Committee on August 6 in reply to an article in the previous week's paper (see C. & D., August 5, p. 145).

The original text of Mr. Wright's letter was as follows:—

Both in language and in point of fact your correspondent Dr. Goodenough shows a singularly irresponsible attitude to members of a profession closely associated with the medical profession, to which he presumably belongs.

May I say on behalf of the 15,000 pharmacists in England and Wales who co-operate with the medical profession in making the N.H.S. a real service to the patient, that we strongly object to phrases such as "the little man . . . round the corner" and "dishing out pills or tablets." No reputable doctor would attempt to suggest that there is no more to dispensing than "dishing out pills." What could be more misleading than his sentence "as things are now the Government is paying you"—by "you," he means the pharmacists—"for your drugs more than it is paying all the family doctors for treating the patients."

Doctors were paid in capitation fees £66 millions in England and Wales in 1959-60 (9 per cent. of the total N.H.S. costs) for treating National Health Service patients. Pharmacists were paid only £13.3 millions in fees (1.9 per cent. of the total cost). The balance of £60 millions paid to pharmacists represented the actual cost of the medicine, etc., prescribed by the doctors, and the oncost allowance of 25 per cent., which is lower than the figure fixed at the beginning of the National Health Service in 1948.

We cannot for a moment believe that your correspondent, Dr. Goodenough, was ignorant of these facts when he wrote his tendentious and unprofessional article.

Pharmacy, according to Dr. Goodenough, is almost unskilled labour. Anybody could do it and certainly any doctor could do it. At the same time he complains of the overwork of doctors under the N.H.S. The fact is that there is no profession which is so controlled by law as that of the pharmacist. This is obviously proper and right, since, to make the most obvious point, the pharmacist is called upon frequently to dispense with absolute accuracy infinitesimal quantities of drugs which in even slightly larger quantities would be lethal. In order to qualify as a pharmacist it is necessary to undertake three years of intensive study followed by one year's practical experience.

The rewards of the pharmacist are so pitifully low that there is the greatest difficulty in attracting young men and women to the profession.

What the pharmacists of England and Wales are now demanding is that just as the medical profession has rightly insisted that its fees and salaries under the National Health Service, however inadequate, should be based on their professional qualification, so, too, the pharma-

cist is entitled to a proper professional fee.

We have suggested the extremely modest one of 2s. for every prescription dispensed.

To the abridged version a footnote by the author of the offending article said:

*. . . the country is paying more for drugs than for doctoring and in my view the chemists are getting a very fair share of that enormous bill.*

A letter dated August 3 from Mr. F. W. Adams (a secretary and registrar of the Pharmaceutical Society) gave the Society's views as follows:—

I am writing to express the views of the Society on the article entitled "Don't Swallow This One" in your issue of last Sunday. In its efforts to discredit the pharmaceutical profession the article far exceeds the limits of fair comment. It is a matter of grave concern that a newspaper should publish an article which refers in such contemptuous terms to a calling which has a long and honourable tradition of service to the public, and to which important responsibilities have for many years been entrusted by the Crown and by Parliament. Calculated as it is to undermine confidence in a profession which is an essential factor in maintaining the health of the nation, the article has done a serious disservice to the public.

The article is made doubly deplorable by the fact that it is written by a medical practitioner. This attempt to gain sympathy for his own profession at the expense of another is not only well below the standard of behaviour expected of a medical practitioner, but is grossly misleading as to the relations between medicine and pharmacy. These relations are close and harmonious based upon mutual understanding and respect and any suggestion that they are otherwise cannot but be detrimental to the public interest.

The letter did not appear in last Sunday's *People* nor any mention of it.

## LEGAL REPORTS

### Not Guilty

AT Sussex Assizes, recently, John Glyn Jones Williams, M.P.S., the Arcade, Worthing, was found not guilty of two charges alleging that he had assisted young women in bringing about miscarriages. After a three-day hearing, the jury took only eight minutes to find Williams not guilty of supplying a syringe and a noxious substance to a woman with intent to procure a miscarriage, and conspiring with a second woman to procure her miscarriage. The prosecution alleged that the two women had called at his shop, where they were given pills and medicine and in one case a syringe and certain advice on how to procure their miscarriage. Williams, who said he had been a chemist all his working life, denied the allegations. He said he could not recall having seen the girls in his shop and he had never given them any advice about procuring miscarriage. He had contacted the police after receiving a letter containing a blackmail threat

from one of the girls. Dr. Francis Camps (Home Office pathologist), giving evidence for the defence, told of people's reactions to certain drugs, and added that it was extremely difficult to bring about a miscarriage with any form of drug.

## COMPANY NEWS

Previous year's figures in parentheses

**WILLIAM PATERSON & SONS (ABERDEEN), LTD.**—Mr. James C. Park, M.P.S. (director), retired on July 31 after thirty-five years' service with the company.

**HARDMAN & HOLDEN, LTD.**—Messrs. Norman J. Travis and James D. Tennant (directors of Borax (Holdings), Ltd.), have been appointed to the Board of Hardman & Holden, Ltd.

**MILES LABORATORIES, INC.**—Consolidated net sales in six months ended June 30 were \$44.3 millions (\$39.2 millions), and net earnings after taxes, \$2.42 millions (\$1.7 millions).

**JOHNSON & JOHNSON (GT. BRITAIN), LTD.**—Mr. John K. McPhie (director) has been appointed to the boards of Johnson & Johnson (Ireland), Ltd., Johnsons (Proprietary), Ltd., and Johnson & Johnson (Dressings) Ltd.

**KIMBERLY-CLARK, LTD.**—Mr. D. G. Croxon has been appointed managing director. Formerly general manager of the company, he succeeds Mr. J. M. Cameron, who has returned to his native Canada to become vice-president of the consumer products division of Kimberly-Clark Canada.

**I G FARBEN INDUSTRIE, A.G.**—The company which is liquidating the assets of the former I G Farben chemical combine had a net profit of D.M. 20 millions in 1960 (against D.M. 12.5 millions). Profits came from interest and dividends from capital freed during the year, the sale of a partnership from subsidiaries since liquidated, and from repatriation of assets abroad. The company paid D.M. 12 millions under a standing agreement in 1960 to the three I G Farben successor companies—Bayer [Leverkusen], Hoechst and Basf. The three have received D.M. 84 millions from the liquidating company all told. A further D.M. 51 millions remain to be paid out.

## NEW COMPANIES

**HARD CAPSULES, LTD. (P.C.).**—Capital £1,000. To carry on the business of chemists, etc. Solicitors: Aukin & Co., 5 Queen Anne Street, London, W.1.

**F. G. MARTIN (CHEMISTS), LTD. (P.C.).**—Capital £1,000. To carry on the business of chemists, etc. Director: Frederick G. Martin, M.P.S. R.O.: 10 Adam Street, London, W.C.2.

**BROCKLEY DRUG & SURGICAL STORE, LTD. (P.C.).**—Capital £100. Directors: Edward J. F. Whittall and Herta V. Whittall. R.O.: 16 Brockley Cross, London, S.E.4.

**HUGHES (CHEMISTS), LTD. (P.C.).**—Capital £100. To carry on the business of chemists, druggists, etc. Directors: Douglas Pryce-Thomas, M.P.S., and Elena E. V. Pryce-Thomas. R.O.: 930 Christchurch Road, Bournemouth.

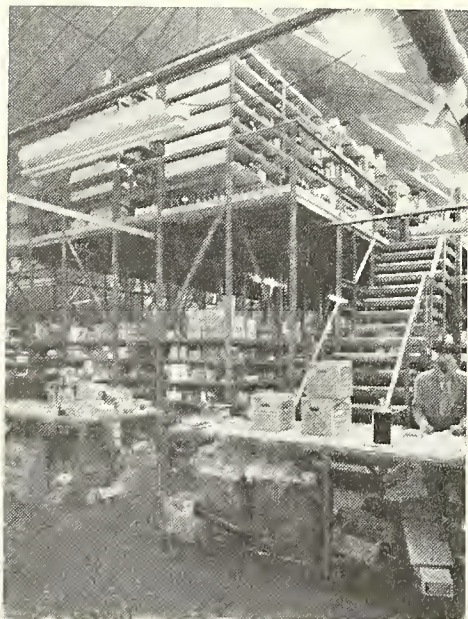
**THORPE GARTH PHARMACY, LTD. (P.C.).**—Capital £1,000. To carry on the business of chemists, etc. Subscribers: Richard Deadman, M.P.S., and Peter Clayton. R.O.: 6 Thorpe Garth, Idle, Bradford.

**BIRKBYS CHEMISTS, LTD. (P.C.).**—Capital £1,000. To carry on the business of chemists, etc. Directors: Arthur L. R. Birkby, F.P.S., and Jean Birkby. R.O.: 109 Oxford Street, Werneth, Oldham.

## MAKERS' ACTIVITIES

### Electronic Sterilising of Dressings.—

An electron accelerator has been purchased by Smith & Nephew, Ltd., Hull, for the production of sterilised bandages, plasters, and medical dressings. The installation of the 4-million-electron volt, 4-kilowatt accelerator will be the first in-plant use of machine radiation for pilot production outside of the United States. The apparatus directs a beam of electrons through a 15-in. scanner, sterilising the pre-packaged product on a conveyor line. It has a capacity of approximately 600 lb. per hour and is being installed and serviced by High Voltage Servicing Co., Ltd., representatives in the United Kingdom and Eire for High Voltage Engineering of Walnut Creek, California, U.S.A.



**STORAGE AREA INCREASED:** R. A. Cripps, Ltd., wholesale chemists, Portslade, Sussex, have increased their warehouse space by almost a quarter by installing a raised area mounted on Dexion slotted angles as shown in the illustration. The structure is 16 ft. high and 20 ft. wide.

## BUSINESS CHANGES

**MR. W. ANTOUN, M.P.S., D.B.A.,** has acquired the pharmacy at 7 Nuxley Road, Belvedere, Kent, formerly owned by Ascotts, Ltd.

**RETFORD CO-OPERATIVE SOCIETY, LTD.,** have transferred their pharmacy department to Arcadia, Carolgate, Retford, from 22 Carolgate.

**MR. W. D. JONES, M.P.S.,** has opened a pharmacy on Hollies Farm Estate, off Woodlands Road, Allestree, near Derby, and will trade as Dudley Jones, Ph.C.

**NEATEX PRODUCTS, LTD.,** are transferring their office and administration to Shaw Mills, Hawarden, North Wales (formerly the Hawarden Aerodrome) on August 14 (telephone: Hawarden 3021). The company are retaining their premises at Wern Mills, Queensferry.

### Appointments

**HOWARDS OF ILFORD, LTD.,** announce the following appointments: Mr. E. J. Fleetwood to be pharmaceutical sales adviser to the joint managing director (commercial) and Mr. R. F. York, home sales manager.

**F. W. BERK & CO., LTD.,** 8 Baker Street, London, W.1, announce that Dr. F. C. Lloyd, B.Sc., F.R.I.C., has joined the company in the position of development director, although not a member of the main board.

**BOWATER - SCOTT CORPORATION, LTD.,** Bowater House, Knightsbridge, London, S.W.1, have appointed Mr. A. J. Whittingham administrative sales manager from August 1. Mr. Whittingham comes from the company's south-western region and his position there will be taken over by Mr. T. G. Windows, currently sales manager of the south-eastern region. Mr. H. A. Bodger (previously temporary sales manager, northern region) has been promoted sales manager of the south-eastern region. Mr. D. M. MacLennan returns as sales manager to the northern region after a year at head office, where he was seconded for special duties to the Bowater Paper Corporation. Mr. S. A. Urquhart (Scottish region) and Mr. H. B. Young (midland region) remain as sales managers of those territories. New district managers have been appointed in the south-western and south-eastern regions. Mr. C. F. Outram moves to the Bristol area to take over from Mr. C. G. Aspinall, who has joined London headquarters in the advertising department, and Mr. A. B. S. Woolcott has been promoted district manager in the south-eastern region taking over Mr. Outram's territory.

## PERSONALITIES

**MR. WILLIAM B. MUTCH, F.P.S.,** 62 Sedgley Avenue, Buersel, Rochdale, Lancs, who has been employed at the Yorkshire Street branch of J. J. Thomas & Son for the past ten years, escaped serious injury when his car skidded, struck a wall and somersaulted in Lancashire recently. His two sons, however, were detained in hospital.

**MR. J. C. SHILL, M.P.S.,** who has been appointed a director of Boots Cash Chemists (Eastern), Ltd., joined Boots, Ltd., in 1927, at Wakefield, and qualified as a pharmacist after attending Nottingham University where he was awarded a Boots scholarship and a Fitz-Hugh scholarship. He is a member of the Birmingham Pharmaceutical Association, the Birmingham Pharmaceutical Committee, and the Birmingham Chamber of Trade.

**MR. G. A. GUEST, F.P.S.,** who twenty years ago took over a pharmacy in Wombwell, Yorks, is to retire. He will be succeeded by his nephew, Mr. G. D. Guest, M.P.S. Mr. G. A. Guest qualified from Edinburgh fifty-two years ago. After serving throughout the 1914-18 war he worked in London and later acquired a business at Burton-on-Trent. He then moved to Coalville to which town he intends to return for his retirement.

**MR. L. P. J. KEARIN, M.P.S.,** head of the retail staff department of Boots Pure Drug Co., Ltd., Nottingham, has been appointed to the board of Boots Cash Chemists (Lancashire), Ltd., is a native of Canterbury and was apprenticed there in 1923. He went to the London College of Pharmacy in 1927 and qualified as a pharmacist in 1928. After considerable experience as a relief man-

ager in the south of England he was appointed drug manager at Regent Street, London, and became manager at Folkestone in 1936.



**Mr. Davis Factor,** administrative head and chairman of the Max Factor cosmetic organisation, and **Mrs. Factor** receiving **Mr. L. L. Webber, M.P.S.,** and **Mrs. Webber** at a cocktail party at the Dorchester Hotel, London, on July 18.

## MARRIAGES

**CORRIE—CRAIG.**—At St. Mary's Parish Church, Belfast, recently, Victor Hurst Corrie, M.P.S.N.I., 12 Park Parade, Lisburn, co. Antrim, to Anne Elizabeth Moyra Craig, 23 Chlorine Gardens, Belfast.

## DEATHS

**BOXHALL.** — In April 1961, Mr. William Henry James Boxhall, M.P.S., 193 Greenwich High Road, London, S.E.10. Mr. Boxhall qualified in 1927.

**CHALLINOR.**—In June 1961, Miss Nora Minnie Challinor, M.P.S., 475 Chell Heath Road, Chell Heath, Stoke-on-Trent, Staffs. Miss Challinor qualified in 1952.

**CUNDALL.** — On August 5, Mr. Richard Percival Cundall, M.P.S., 25 Hillcrest Avenue, Leeds, 7. Mr. Cundall qualified in 1909 and for forty-eight years worked for Goodall Backhouse & Co., Ltd., Goodalls (Leeds), Ltd., and latterly for Hirst Brooke Goodalls, Ltd., as representative in parts of Yorkshire. Mr. Cundall leaves a widow and daughter.

**GILES.**—Recently, Mr. Egbert Constance Giles, M.P.S., 8 Dewsland Park Road, Newport, Mon. Mr. Giles qualified in 1910 and was in business at Cwm, Ebbw Vale, for forty years.

**LISCOMBE.**—Recently, Mr. Gordon Philip Liscombe, M.P.S., Felpham Road, Felpham, Bognor Regis, aged forty-six.

**ROSS.**—Suddenly, at Thurso, on July 27, Mr. Thomas Ross, M.P.S., 14-16 High Street, Lochwinnoch, Renfrews. Mr. Ross qualified in 1918.

**SNOOK.**—On July 16, Mr. Allan George Snook, M.P.S., 53 Freeman Avenue, Hampden Park, Eastbourne, Sussex, aged seventy-eight.

**TRESTRAIL.** — On July 29, Mr. James Phillips Trestrail, M.P.S., 9 Marett Road, St. Budeaux, Plymouth. Mr. Trestrail qualified in 1914.

**WOMBELL.** — On August 1, Mr. James Wombell, M.P.S., 7 Johnson Road, Birstall, Leics, aged fifty. Mr. Wombell had been manager of Boots, Ltd., Narborough Road, Leicester, for fifteen years.

## TRADE NOTES

**No Tax on Shop Fittings.**—The Thirsk Equipment Co., Ltd., 741 Garratt Lane, London, S.W.17, give a reminder to chemists contemplating shop-fitting changes that there is no purchase tax on shop fittings.

**New "Bonus Value" Cards.**—George Goodman, Ltd., Birmingham, 28, are increasing the number of "Kirbigrips" on a card and claim to have given extra quality to the hair grips, making them springier and with non-peel cushion tips.

**Calculating the Tax.**—A purchase-tax table based on the new rates has been prepared and will automatically be circulated to the customers of Macarthy, Ltd., Seymour Road, Romford. They offer to send a copy to any other pharmacist applying.

**A Source of Supplies.**—A "widely competitive" range of bathing caps, bathroom scales, holdalls, picnic outfits, sponge bags, sunglasses, washing squares, etc., is offered by Butler & Crispe, Ltd., 80 Clerkenwell Road, London, E.C.1 (catalogue available on application).

**Introduction of a New Showcard.**—Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, announce the introduction of a new showcard and leaflets for counter distribution for their product Dentosine. Also available are dentist's appointment cards directing patients to chemists as the product is said to be particularly beneficial after dental treatment.

**Protection for Traders.**—To protect small shopkeepers and traders from unscrupulous advertising space salesmen, a new company, the Advertisers' Protective and Advisory Service, Ltd., White Lodge, The Crescent, Cheadle, Ches, has been formed. The trader pays to the company a fixed sum per annum, and refers to the company the question of the authenticity and value of any approach by the space salesman.

**Price Marking Machine.**—Speedwork Systems, Ltd., 18 Bowlers Croft, Basildon, Essex, draw attention to their Wam baby price-marking machine using Flickom self-adhesive labels which stick at a touch and may be cleanly removed after use. The company state the machine has long-life steel flickdown radials with no "messy type" and a name may be imprinted at the same time.

**Fingertip Bottle Dispenser.**—A fingertip dispenser, Presto Pour, distributed by W. Leven, Ltd., 30A Sackville Street, London, W.1, is stated to fit any ordinary bottle-neck and will pour the exact amount required without moving container and to be suitable for dispensing and counter sales of all beverages and chemicals. The Presto Pour is issued in polythene of red, yellow or blue and directions are supplied with each.

**Display Prize-winners.**—Genatosan, Ltd., Loughborough, Leics, announce that the prize-winners in the second Sanatogen/Sebbix window-display competition were Messrs. J. D. Hazard, M.P.S. (Brooke Gregory (Chemists), Ltd., Folkestone); P. J. Shearman, M.P.S., Brightlingsea, Essex; J. Brown, M.P.S.,

42 Avondale Avenue, Penshaw, Houghton-le-Spring, co. Durham; and in the third competition, Messrs. I. W. Wilson, M.P.S. (manager for Mr. L. G. Frost, M.P.S., Birkenhead); A. H. Maddick, M.P.S. (Workshop Co-operative Society, Ltd., Eastgate, Workshop); and Parsons & Hann, Ltd., Watchet, Somerset.

**Strip Packaging.**—With the installation of a new Wetzel strip packing machine EW102, Parker Packing, Ltd., Victoria Wharf, Grove Street, Deptford, London, S.E.8, can now offer a strip packing service for tablets, capsules, dragées, etc., on contract. With a delivery date of about six weeks, they believe the speed of their service to be unequalled. Parker Packing, Ltd., also offer a variety of weighing and filling services, including semi-manual ointment tube filling. They have extensive export packing facilities and are capable of handling a wide range of pharmaceutical goods and machinery.

**For Interior Display.**—"Sculpture," obtainable from Sanderson Packaging & Display Papers, Berners Street, London, W.1, is a new three-dimensional wall covering imported from the United States. The sculptural effects may be used effectively for general displays, exhibition stands and back-grounds, and showcases. They are made of lightweight plastic, are self-adhesive and easy to handle. The panels measure 18 in. x 24½ in. x ¼ in. and are cut to interlock closely without noticeable seams. The instructions for application are on the back of each panel, which

are available in a variety of textured finishes and colours, including straw, bamboo, white, white and gold and natural red brick, grey and terra-cotta field stone and grey and tan Pecky-Cyprus wood. Colourful three fold brochures containing full details and illustrations are available.

**Tubular Bandages.**—Seton Products, Ltd., Medlock Street, Oldham, Lancs, are makers of knitted "tubular" bandages in cotton and cotton/rayon blends, and it is all spun locally. The Tubiton tubular bandage is made in twelve sizes from "finger" to "body." It is water-repellent, free from any chemical impregnation that might be harmful to the patient, and resilient. The Tubigrip bandage is for radial pressure and rehabilitation. Tubifoam is used by chiropodists for treating corns, bunions, etc. The tubes are made to allow a double thickness of foam to go half way round the circumference, so as to minimise the thickness of the dressing between the toes. The range comprises six widths from ½ in. to 1½ in.

### Bonus Offers

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex. Anthisan cream. Anthical cream and lotion. Thirteen to doz.

### INFORMATION WANTED

The Editor would appreciate information about the following:

Ice caps  
Swan seawater soap

## NEW PRODUCTS AND PACKS

**A Syrup in Two Flavours.**—Laboratories for Applied Biology, Ltd., announce that their product Emeside is now available as a syrup in two flavours (blackcurrant and orange), in 8-oz. and 40-oz. sizes.

**"Launch" Pack.**—During the period of launch of the "Super Sword-edge" Wilkinson safety-razor blade, manufactured by Wilkinson Sword, Ltd., Southfield Road, London, W.4, the only pack available contains twenty-four "dispensers" of five blades each.

**Presentation Pack.**—Lincoln Chemicals, Ltd., 14a New Broadway, London, W.5, have produced a new presentation pack for their Linc-o-lin hand cream. It is a "see-through" striped container designed to take the polythene hand-shaped packs of hand cream, and contains one 4-oz. and one 1-oz. hand with an Irish trimmed handkerchief that forms a ruffled cuff on the larger pack.

**Facial Freshener.**—Revlon International Corporation, Ltd., 86 Brook Street, London, W.1, have added to their Moon Drops series a facial freshener described as "moisturising, golden-amber, pearlescent and velvety smooth in texture." The product is stated to be non-greasy, non-drying and gently antiseptic in action. It is issued in 4-oz. and 8-oz. bottles and will be on sale from October 4.

**"Entirely New" Liquid Make-up.**—Max Factor, Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, have produced for the Brit-

ish market what they describe as an entirely new liquid make-up, Sheer Genius. In one application a woman has with Sheer Genius a complete, all-in-one make-up. The tube has a transparent shoulder to show the shade of the make-up inside. There is no fear of spilling or breakage, and the exact amount needed may be controlled, making for economy in use. Sheer Genius is available in a range of six



shades. Individual skin tones may be matched or supplemented. The product goes on retail sale throughout the country from September 10. Counter "dispensers," as illustrated, are available.

## Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

### Doctors and Journalists Take Note

SIR,—It seems that, when a powerful newspaper makes a cowardly, scurrilous attack such as the *People* has recently made on the pharmaceutical profession, one can do little beyond hoping that other, more responsible papers will deprecate the dirty methods used. However, one cannot but feel that either the General Medical Council or the Press Council must be seriously perturbed that such matter should be published ostensibly under their aegis, for if "Dr. Nott Goodcough" is actually a member of the medical profession (and not merely a misleading journalistic pen-name), then the medical code of ethics must have been sharply punctured by his sewer-cidal pen. On the other hand, if he is not a doctor then, having in mind that the prostitution of the term is now barred even for television advertising, surely the Press Council must deplore the dissemination of dirt over the signature "doctor"! What are those Councils doing about it?

H. W. WEEKS,  
Surbiton, Surrey

### Tax and Margins

SIR,—Over the past few days pharmacists have been inundated with new price lists. It is difficult to examine all of them to ensure that profit margins have been maintained in accordance with the recommendations of the National Pharmaceutical Union. This letter is prompted by the new Vick-Milton price list. In the case of all taxed lines profit margins have been reduced, and in those case where the retail price is unchanged even the actual profit per item is reduced. That leads me to suggest that the N.P.U., or some other organisation interested in the welfare of pharmacists, should examine all new price lists and inform us which manufacturers are or are not maintaining profit margins so that we can take appropriate action. There seems little point in recommending manufacturers

to maintain their profit margins if we do not encourage them to do so. I was also curious to note that, unlike other sections of the retail trade, we are recommended not to pass on the surcharge for a month. Will the N.P.U. assure us that, when the surcharge is removed, the public will not expect the benefit immediately?

T. WRIGHT,  
Culgaith, Penrith

### Discipline

SIR,—Mr. Sim (see *C. & D.*, August 5, p. 144) committed an offence, was convicted in the courts and paid a smallish fine. He was then brought before the Statutory Committee and punished again, this time with what amounts to a fine of, say, £1,500 a year for as long as his expulsion lasts, plus the possibility (I know nothing of him or his circumstances) of business disruption of indefinite cost to him—a total penalty that might eventually reach several thousand pounds. Mr. Silver (*C. & D.*, August 5, p. 144) invites us to consider ourselves a professional organisation. I now invite him to consider how serious a crime a doctor or a lawyer or a parson would have to commit to incur such savage punishment from their disciplinary bodies. Do we really set a higher value on our professional honour than they do on theirs? Who do we think we are? At the thought of such owlish presumption even Aesop's frog would split what was left of his sides.

ANTI STAR CHAMBER

### Marketing a Food Product

SIR,—We are naturally sorry that Mr. Tune (*C. & D.*, August 5, p. 144) found it necessary to write to you complaining of our alleged lack of manners (or guts) (*sic*) in connection with the marketing of Limmits. Our records show that a statement of our policy was dispatched to Mr. Tune eight working days after receipt of his letter. In view of the magnitude of the Limmits operation we do not consider this delay proves bad

manners. But we apologise for the delay. Certainly we have been conscious of our obligations to our friends in the pharmaceutical profession and as a matter of urgent policy we have used every conceivable method to explain our marketing strategy. We discussed the matter with the National Pharmaceutical Union, and the decision to market Limmits through food outlets was taken after a most comprehensive review of a very extensive test launch. We have facts to prove that the widest possible distribution of Limmits produces the best profitability for all sections of the trade and ourselves. All our business contacts in the past have been with retail and wholesale chemists, and marketing a product through food outlets has been a completely new departure for our company. But this is a food product, and our test market experience shows that the public expect to buy it from food outlets as well as from chemists. We are grateful to the huge majority of pharmacists who are stocking and selling Limmits, and whose retail experience encourages them to understand and appreciate our marketing policy.

R. J. GRIFFITHS, *Sales Manager*,  
Universal Laboratories, Ltd.,  
Folkestone

### BRANCH EVENTS

#### HARROW

#### Chairman Entertains Committee

COMMITTEE members of the Harrow Branch of the Pharmaceutical Society and their wives were guests of the Branch's new chairman (Miss V. W. Burrell) at an "at home" on July 17. The function was by way of celebrating the anniversary of the first "get together" of pharmacists in the Harrow area which took place fifty years ago on July 19, 1911. A report in the *CHEMIST AND DRUGGIST* at the time mentioned that the meeting, which was presided over by the then assistant-secretary of the Pharmaceutical Society, resolved to form among themselves an association to be known as the Harrow and district Pharmacists' Association. Many of the founder members of that Association were to play a prominent part in the inauguration of the present branch twelve years later.



**HOSTS AND GUESTS AT A FACTORY:** Fifty members and guests of the Pharmaceutical Society, Colchester branch, recently visited the factory of Stafford Allen & Sons, Ltd., at Long Melford, Suffolk. Mr. A. W. Allen, welcoming the branch, pointed out that due to the isolated, though pleasant, position of the factory it is necessary to be independent of public services. That entails generating the bulk of its own electricity, pumping and demineralising water for manufacturing processes, and even building its own roads. The members saw the distillation of many volatile oils, including caraway, cardamom, pepper and celery. Keen interest was shown in the number and variety of colloid and ointment mills in use in the galenical department. Other departments visited included filling and packing. The branch chairman (Mr. W. H. A. C. Whyte) thanked Mr. Allen and his staff for their hospitality. He paid tribute to the family atmosphere that prevailed in that old-established business.

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

On Insufficient Evidence

THE suggestion that chemist contractors have taken advantage of a situation in order to make excessive profits from the National Health Service is implicit in the third report of the Committee of Public Accounts, Session 1960-61 (see *C. & D.*, August 5, p. 138).

A grave shortcoming of the report is that the opinions of the Committee are given, in the manner of an authoritative pronouncement, without any indication of the breadth—or narrowness—of the evidence upon which the judgments were based. It would seem to us that, in the matter of chemist contractors' remuneration, the Committee would find it an almost impossible task to ensure that their report did not reflect a biased view unless the pharmacists, or their representatives, had been asked to give evidence. So far as we can ascertain, the Central N.H.S. (Chemist-Contractors) Committee was not asked to provide any evidence for the Committee, and therefore presumably the Committee had to rely upon the evidence provided by the senior officials of the Ministry of Health and the Treasury.

We have stated previously how much we admire the way in which the permanent officials for the various Ministries acquit themselves when facing such oral examinations. Nevertheless, their primary concern is with their own departments, and they cannot be expected to put forward the case of the chemist contractors. It is unfortunate that such basic deficiencies in the evidence do not appear to be apparent to the Committee.

Unlike the third report issued in 1958, in which the Committee referred to Drug Tariff prices as affording a "concealed profit averaging 14 per cent.," the current report has received relatively little mention in the national Press. That does not, however, mean that it will have passed unnoticed by the Minister of Health, and no doubt the Central N.H.S. Committee will have to deal with the suggestions it contains. It would have been much better if the Public Accounts Committee had had the advantage of the contractors' point of view before, not after, presenting its report.

Overseas Trade in Pharmaceuticals

WITH June exports of drugs, medicines and medicinal preparations from the United Kingdom valued at £4,134,207, the value for the half-year at £24.2 millions is about 6 per cent. higher than in the first half of 1960. Most items for which statistics are provided were well up to the average monthly rate.

Australia's purchases of prepared medicines from the United Kingdom showed a fall of about £100,000 in the first half of the year, but New Zealand's were about £150,000 up. Nigeria, second only to Australia as Britain's best customer, also improved her purchases and at £1.5 millions showed a rise of £100,000 on the half-year. Shipments to the Irish Republic in June valued £181,903, brought the half-yearly total to £1.1 million. Of the five Common Market countries for which figures are given, four showed increased purchases, in particular Belgium which at £544,109 almost doubled her purchases in the half-year; Western Germany was the exception, sales to that country being slightly down on last year's equivalent purchases. Sales to Canada showed a little improvement but exports of medicinal products to the United States of America were about £40,000 down.

On the import side, purchases by the United Kingdom went up in June to £463,391, of which about one-quarter was due to antibiotics.

The total value of all United Kingdom exports in June were valued at £316.3 millions, imports at £317.3 millions and re-exports at £13.8 millions.

EXPORTS		VALUE
		£
Drugs, medicines, medicinal preparations	(total) ... ..	4,134,207
	Vitamins ... ..	227,621
	Penicillin salts ... ..	55,904
	Penicillin injections ... ..	80,376
	Penicillin tablets, ointments ... ..	101,779
	Antibiotics other than penicillin ... ..	668,384
	Alkaloids ... ..	119,175
	Aspirin ... ..	109,914
	Antihistamines ... ..	53,776
	Antipaludics ... ..	84,860
	Barbiturates ... ..	36,791
	Anæsthetics (excluding ether, chloroform and ethyl chloride) ... ..	176,527
	Ointments and liniments ... ..	114,136
	Insulin ... ..	23,561
	Hormones ... ..	152,065
	Sulphonamides, prepared ... ..	148,039
	Proprietary medicines ... ..	1,202,950
	Unclassified medicines ... ..	741,461
	Glycerin ... ..	43,383
	Acetone ... ..	9,780
	Citric acid ... ..	72,546
	Essential oils, natural, excluding turpentine ... ..	92,291
	Sulphonamides, unprepared ... ..	52,247
	Perfumery and toilet preparations ... ..	
	Lipstick, face powder, etc. ... ..	313,755
	Dentifrices ... ..	133,709
	Toilet soaps ... ..	253,450
	Synthetic detergents ... ..	574,264

IMPORTS		£
Vitamins ... ..		29,226
Antibiotics ... ..		115,552
Alkaloids ... ..		57,178
Proprietary medicines ... ..		64,510
Unclassified medicines ... ..		196,925
Borax ... ..		113,733
Iodine ... ..		47,721
Menthol ... ..		31,393
Essential Oils ... ..		
	Bergamot ... ..	15,565
	Citronella ... ..	53,521
	Clove ... ..	6,972
	Geranium ... ..	56,184
	Lavender ... ..	2,982
	Lemon ... ..	90,050
	Orange ... ..	19,688
	Peppermint ... ..	57,647
	Unclassified ... ..	354,830

## HOSPITAL PHARMACY FORUM

# PRINCIPLES OF LABELLING

ON July 25 a smartly dressed business woman presented her prescription at the out-patients' window. It called for a well publicised oral penicillin tablet: not penicillin exactly, unless we use the term in a broad generic sense. The prescription was duly dispensed and handed over; then the argument started.

"Why are these not properly labelled?" asked our patient in the best schoolmarm tradition. Actually she was not a schoolmarm: they were all busy discussing their strike that day. Our lady's card described her as a statistician.

"A medicine is only labelled with its contents if the doctor so directs, madam, and he has not directed it in this case."

"Then I wish to protest! How am I to know what I am getting and that it is the right medicine?"

"You have to assume that the doctor has prescribed correctly and that we have dispensed correctly. If there were any doubt about the clarity of the prescription we would, of course, ring up the doctor. That is our job."

"But this is insulting to my intelligence. I have a right to know what is being ordered and what I am getting."

"If the doctor wished you to know, madam, or if you asked him, he would probably tell you. If he wished us to tell you, he would indicate that on the prescription."

"I can read the prescription: there is no need to ask him."

"Then all you want now is to check that we have not made a mistake?"

"I wish to protest against treating us in this way. It is not only my medicine, but all these other people. I want you to make a note of my protest on the card."

"You are entitled to protest, madam, by writing to any of the authorities, but you cannot reasonably expect us to deface your prescription card."

"I am campaigning against this kind of treatment."

"Just so, madam. Anyone is free to propagate his point of view. I suggest that you write to the Minister of Health. The problem is not a new one, of course, and is much more complicated than would appear to a superficial observer."

"There is nothing complicated about it: the doctor gave me an injection of penicillin and told me he would give me penicillin to take by mouth. Why cannot you label the box penicillin so that I know I have the right drug?"

### *Accuracy and the Layman*

"You have just answered your own question, madam. If I had labelled the box as you suggest I would not have labelled it 'Penicillin.' It would have been inaccurate to do so, and, in fact, the word penicillin does not appear on the prescription."

"But the doctor said he would give me penicillin. Now you are raising doubts as to whether I have got the right medicine."

"You need not be unduly disturbed: what you have is a modified penicillin to be taken by mouth, but it would be incorrect to label the box 'Penicillin.' If I had labelled it with some more accurate term you would then accuse us of making a dispensing error. I am trying to show you that the matter of labelling medicines is a complicated one which can lead to difficulties for the patient. That is why we have the understanding with the doctor, that unless he specifically requests it, we do not label medicines other than with directions for their use."

"I still say I have a right to know the full details. It may be a drug I cannot take. I should never take aspirin: Now you tell me this is a modified penicillin: it may contain aspirin. I must be told these things."

"If there are drugs to which you are known to be sensitive, madam, it is as well to tell the doctor so. We cannot

supply anything other than the drugs prescribed by him."

"You should always give us the full information."

"Madam, when you consult your doctor, do you ask him for a full explanation of your disease and a written certificate of your diagnosis so that you can check his accuracy?"

"Of course not: but that is different. Anyone of intelligence can read the name and judge for himself that it is the right medicine."

### *A Complex Question*

"I think you underestimate the complexity of the matter, madam. There are over 3,000 different medicaments in this department, and many of them have several names. Without the use of reference books and files I would not claim to know all of them myself, but I doubt if I would convince you, madam. However, make your protest if you wish, I'm afraid I have kept several patients waiting already in order to give you a change to make your point."

That, somewhat abridged, is a true story. I hope that some of the protagonists of the labelling of all medicines with their descriptive name will take heed. There has been a good deal of half-considered agitation by certain doctors to have everything labelled. A number of pharmacists, too, think it is a good idea. Certainly there may be advantages in some cases. It is obviously an advantage to the patient who is taking several drugs and needs to know which is for what purpose. Beyond that it is not easy to see what advantage it is to a patient to see the name of his medicine. There are certainly disadvantages. The mistrust and fear which can arise in the patient's mind if he sees an "approved name" on one occasion and a proprietary name on another is of no help to the patient or the doctor, and least of all to the pharmacist. Nobody wants to hide behind abracadabra and build up a false mystery in these days, but every profession has its own responsibilities and its own techniques for dealing with them. If they sometimes puzzle the lay person, or even irritate him, it is a small price to pay for the services of highly trained professional people to safeguard his interests. It will be impossible to maintain the confidence of the public for long if arguments such as the one described become frequent and widespread: nothing is more dangerous than a little knowledge.

Hospital pharmacists would be serving the best interests of the profession, as well as putting up a small bulwark to protect their remaining vestiges of sanity, by resisting the clamour for the labelling of drugs. Far better to let the doctor decide and take full responsibility for those cases in which he wishes the name to be put on: let him indicate his wishes clearly. For the rest—let there be silence and quietness of mind.

### A PHARMACIST'S ANTHOLOGY

#### DIRE THE CRASH OF VIALS

From *Japhet in Search of a Father* by Captain Marryat  
BURNING with all the hate which infuriated the breasts of the two houses of Capulet and Montagu, hate each day increasing from years of "biting thumbs" at each other, and yet no excuse presenting itself for an affray, Timothy Oldmixon [errand-boy to Mr. Cophagus] . . . turning a corner of the street with his basket well filled with medicines hanging on his left arm, encountered, equally eager in his haste, and equally burning in his hate, the red-haired Mercury of Mr. Ebenezer Pleggit. Great was the concussion of the opposing baskets, dire was the crash of many of the vials, and dreadful was the mingled odour of the abominations which escaped, and poured through the wicker interstices. . . . The ammunition was fast expending on both sides, when Mr. Ebenezer Pleggit, hearing the noise, and perhaps smelling his own drugs, was so unfortunately rash and so unwisely foolhardy as to break through the sacred ring,

advancing from behind with uplifted cane to fell the redoubtable Timothy, when a mixture of his own, hurled by his own red-haired champion, caught him in his open mouth, breaking against his only two remaining front teeth, extracting them as the discharged liquid ran down his

throat, and turning him as sick as a dog. He fell, was taken away on a shutter, and it was some days before he was again to be seen in his shop, dispensing those medicines which, on this fatal occasion, he would but too gladly have dispensed with.

## FIGURES IN THE PHARMACEUTICAL WORLD

**T**HIS year's chairman of the National Pharmaceutical Union, Mr. A. Howells, M.P.S., Barnehurst, Kent, has known how, like an Olympic miler, to hold back for the right moment. In 1946 he held back, after deciding to contest a seat for the National Pharmaceutical Union Executive, in order to give a better opportunity to another contestant. Nine years later, when he did stand for election, his majority was decisive. In the meantime his purpose had become clearer, his confidence greater. Add to those qualities persuasive ability and an unflinching energy and you have the recipe for an ideal chairman for the present year of crisis and destiny in the Union's affairs. His equipment for the status of chairman of the Union derives both from his personality and from his experience, and much of that experience has been acquired by deliberate intention. Because, for example, his pharmaceutical apprenticeship under Mr. Evan Jones at Llanelly in 1921-24 (Jones was the pharmacist who put Fynnon salt on the market), was pre-eminently a training in commerce, he set about finding, for his first post as "improver," a pharmacy where—by contrast—professionalism was the order of the day. He found it in Exeter under a pharmacist whose business was entirely, or almost entirely, in dispensing, and whose window display comprised two rows of bottles and a specie jar. After a term of employment in that pharmacy the young Howells felt himself fitted to make good in any type of pharmaceutical business, and set about qualifying. To do that he enrolled at the [now defunct] London College of Pharmacy, but at his first taking of the Qualifying examination he was referred in pharmacognosy. He took a post near enough to the College (at Finn's of Battersca) to be able to get evening tuition in his "refer" subject, and gained a wife in the process, for he eventually married his coach, who was the secretary of the College and its lecturer in pharmacognosy. After qualifying in 1927 he took a post as manager with William C. Harris, Grove Park, London, S.E.5, and when he was certain he had gained enough experience of management to make a success of a business of his own he opened his own pharmacy. That was in 1933 at Barnehurst, Kent—a business he still conducts—though he now owns a second, opened in 1938, and partners Mr. R. E. Griffiths, M.P.S., in a third, at 150 Long Lane, Bexleyheath.

In public affairs Mr. Howells began his period of tutelage quite early by being the first chairman of the then existing Chemists' Assistants' and Apprentices' Association. He has been on three or four occasions chairman of the Dartford Branch of the Pharmaceutical Society, and was founder chairman of the local N.P.U. branch in 1939, continuing as chairman till 1948; he was again chairman from 1956 until



MR. A. HOWELLS

1959. He was chairman of the Kent and Canterbury Pharmaceutical Committee for four successive years, only surrendering office on becoming chairman of the N.P.U. He is a member of the Kent & Canterbury Executive Council and is vice-chairman of its Administration Committee. He is a member of the Dartford Group Hospital Managements Committee, which has the distinction of controlling among its hospitals both the smallpox hospital for Southern England and the Port of London Authority isolation hospital at Gravesend. He is a member also of the Bexley Hospital Management Committee. On the N.P.U. he served as chairman of the Price List and Publications Committee during the time when, thanks to the Restrictive Trade Practices Act, the N.P.U. had to cease publication of its Retail Price and agree with the Registrar of Restrictive Practices the form in which the present Price Calculator could be published. Through being a member of Executive he became a member of the

Central N.H.S. (Chemist Contractors) Committee and of the Resale Price Maintenance Committee. Those are excellent credentials for a chairman who is as determined, as Mr. Howells obviously is, to secure a new approach to the method of negotiation with the Ministry of Health, its purpose to gain complete recognition for the professional services of the pharmacist.

Mr. Howells's judgment in holding back for the right moment is matched by his sense of occasion, for which he conditions and primes himself beforehand. The result is that he is never in doubt which are, in bargaining, the vantage points that must be fought for at all costs and which are the bargaining counters that may, if necessary, be sacrificed to gain the principal objective. Into his advocacy enter an engaging humour and absence of "flap," and he has a resilience that makes him as good a negotiator as N.P.U. members could wish to have in present circumstances.

# STOCK - CONTROL in the PHARMACY

## Why it is essential and how it may be done

**W**ITHOUT a control on an electric refrigerator, or a thermostat on a heating plant, the unit cannot operate economically or efficiently. Often a comparatively inexpensive, simple control is needed to maintain safe, economical, efficient operation on an intricate and costly machine.

Like a machine with various cogs, pistons and cylinders, a retail business must be properly synchronised to get results. The proprietor in the driver's seat cannot see how all the machinery works, any more than he can tell how much gas is in the tank by looking through the rear-view mirror. He needs the aid of controls to determine whether the various elements of his business are co-ordinating properly. Stock control is one of them.

### *Profits Depend on Control*

Stock moves erratically and with varying momentum from the purchase order to the sale. Without stock control to earmark the route each item takes, a trader may get held up on the business highway with lost sales and costly overstocks. Probably only a minor proportion of retailers today use stock control at maximum efficiency. To function without such a control, hazardous enough in prewar days, is doubly dangerous today when so much instability exists and costs must be kept under rigid control to assure profit.

Stock control is not usually put to efficient use for the following reasons:

- (1) The merchant uses no system at all, because he assumes that stock control is costly and involved.
- (2) He uses too elaborate a system.
- (3) He uses a system badly tailored to the business.
- (4) The system is satisfactory but the method of operating it is not.
- (5) The merits of stock control have never been explained to the trader.

A simple, inexpensive system, adapted to the particular business, is essential to profitable management. Many retail store owners and managers prefer to keep their stock records on a "check sheet," which allows them the flexibility of listing several sizes and colours of an item or brand in one grouping. The face of the check sheet is a numerical graph, whereby records are maintained in units of the movement of stock from month to month.

Starting with the "on hand" of an item, adding purchases for the month, and deducting monthly sales, one arrives at the starting stock for the next month. For example: The "on hand" of a certain item in January totalled thirty-three units. Purchases were thirty-six units, January sales were thirty-four units. Then the starting stock in February would be thirty-five units. On the simple check sheet used for that illustration, a column "O.H." directly following the name of the article and selling price indicates the number of units "on hand." A column "O" denotes the number of units "ordered"; and a column "S" the number of units "sold" during the month. The sum total of "on hand" and "ordered," minus the number "sold," gives the "on hand" figure for the coming month.

That simple sheet enables records to be maintained for a twelve-month period, using the upper set of squares for the first six months and the lower set for the second six-months, and leaving an entire section for the total sales of each period.

To simplify taking the monthly "on hand" count, most retailers will find it practical to group their departments so that, during the first week of the month, two of the heaviest departments are checked; during the second week two additional departments; and during the third and fourth weeks the smaller or more simple departments may be checked.

Using that system with regularity, the operation of taking the monthly "on hand" need not be dreaded as a burden; it becomes a mere matter of routine which, with but slight practice on the part of an assistant, is carried out in little time. It helps, too, in focusing her mind on the stock as Monday morning comes round.

To the amazement of most proprietors or managers who put the system into operation, but who have not been making regular stock-control records, the first thing that is revealed is that, too frequently, goods taken into stock in package units of six or twelve for easy checking have been incorrectly counted, packages having been opened before others are empty, so that several may have only one or two units left in a package that has been regarded as full.

That is one of the reasons for items having been "out of stock." After a few such miscounts the sales girls learn the value of removing the stock from under the counter in package units, thereby keeping merchandise more easily accessible.

While every proprietor or manager will have his own ideas of filing the stock-control records, two suggestions are here made:—

- (1) That each department's records should be filed in a separate ring binder;
- (2) that in the event that records are kept in one or two binders, they should be tabbed to indicate in what departments they belong. It is further recommended that all brands of an article or item should be kept together.

### *Some Economic Benefits*

The advantages of stock control are numerous. Here are only a few:—

- (1) Lost sales because of "outs" are minimised.
- (2) Stock is kept at a safe ratio to volume.
- (3) Sales are kept at a maximum, and more customers satisfied.
- (4) Theft and laxity may be detected.
- (5) Turnover per item is shown up.
- (6) Slow movers are spotlighted.
- (7) Dependable data are provided for statistical analysis to determine future operations on other than a "guess-work" basis.
- (8) Over- and under-stocks alike are prevented.
- (9) Over-buying and under-buying are similarly obviated.
- (10) The system is a buying guide to the most profitable items.
- (11) Capital investment in stock is held to a reasonable limit.
- (12) Items that need reordering are spotted before sales are lost.
- (13) A fall in demand of any item is made apparent.
- (14) Capital investment is switched from slow to fast sellers.
- (15) Monthly movement per item and total monthly stock are recorded.
- (16) Information is provided upon which a stock suited to local demands is built up.
- (17) Overheads are decreased by increasing turnover.
- (18) The system shows when measures such as price reductions may be necessary to clear slow-moving lines.
- (19) Assistants are made thoroughly familiar with location, prices, sizes and colours of stock.
- (20) Profit per foot of counter space is increased.

A JOURNAL RE-ESTABLISHED: Publication of *The East African Pharmaceutical Journal* is to recommence in September and will continue thereafter at three-monthly intervals. Editor of the journal, to whom any inquiries should be addressed, is Mr. T. H. Lloyd, M.P.S., P.O. Box 8310, Nairobi, Kenya.

## AMENDMENTS TO THE C. & D. Quarterly Price List

Users of the list are reminded that they were requested to retain the supplementary price list included in last week's *C. & D.* The present list shows price changes in items not subject to purchase tax.

<i>R</i>	<b>Albamycin G U</b> (1263 Upjohn)	tablets	..	..	30	46	0ea.	..	..	†s4BTS	
			..	..	100	148	9ea.	..	..	†s4BTS	
●	<b>Chloromycetin</b> (938 PD)	vetrettes 500 mgm vet.)	5	114	0	..	..	14	3	TS	
●			50	88	8ea	..	..	133	0	TS	
<i>Delete</i>			6								
<i>R</i>	<b>Decortisyl</b> (1087 Roussel)	tablets 1 mgm)	..	100	66	0	..	..	8	3	TS
			..	500	294	0	..	..	36	9	TS
	5 mgm	..	30	78	0	..	..	..	9	9	TS
		..	100	216	0	..	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Delta-Cortef</b> (1263 Upjohn)	tablets 5 mgm	..	100	18	0 ea	..	..	..	TS	
		..	500	80	0ea	..	..	..	..	TS	
<i>R</i>	<b>Delta-Cortelan</b> (518 Glaxo)	tablets 1 mgm	..	100	5	6ea	..	..	7	4	TS
		..	500	24	6ea	..	..	..	32	8	TS
	5 mgm	..	100	18	0ea	..	..	..	24	0	TS
		..	500	80	0ea	..	..	..	106	8	TS
<i>R</i>	<b>Codelcortone</b> (837 MSD)	tablets 1 mgm	..	100	5	6ea	..	..	..	TS	
		..	500	24	6ea	..	..	..	..	TS	
	5 mgm	..	30	6	6ea	..	..	..	..	TS	
		..	100	18	0ea	..	..	..	..	TS	
		..	500	80	0ea	..	..	..	..	TS	
<i>R</i>	<b>Deltacortone</b> (837 MSD)	tablets 1 mgm	..	100	5	6ea	..	..	..	TS	
		..	500	24	6ea	..	..	..	..	TS	
	5 mgm	..	30	6	6ea	..	..	..	..	TS	
		..	100	18	0ea	..	..	..	..	TS	
		..	500	80	0ea	..	..	..	..	TS	
<i>R</i>	<b>Delta-Cortril</b> (969 Pfizer)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
		..	500	294	0	..	..	..	36	9	TS
	5 mgm	..	100	216	0	..	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Deltastab</b> (147 Boots)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
		..	500	294	0	..	..	..	36	9	TS
	5 mgm	..	100	216	0	..	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Deltastab B</b> (147 Boots)	tablets 5 mgm	..	100	216	0	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Di-Adreson</b> (917 Organon)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
		..	500	294	0	..	..	..	36	9	TS
	5 mgm	..	30	78	0	..	..	..	9	9	TS
		..	100	216	0	..	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Di-Adreson-F</b> (917 Organon)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
		..	500	294	0	..	..	..	36	9	TS
	5 mgm	..	30	78	0	..	..	..	9	9	TS
		..	100	216	0	..	..	..	27	0	TS
		..	500	960	0	..	..	..	120	0	TS
<i>R</i>	<b>Orthoxicol</b> (1263 Upjohn)	syrup	..	2oz.	4	8ea.	..	..	..	†	
		..	16oz.	30	7ea.	..	..	..	..	†	
●	<b>Panadol</b> (97 Bayer)	tablets	..	50	54	0	..	..	6	9	
●	<b>Penitriad</b> (971 PSMB)	tablets	..	20	68	0	..	..	8	6	†s4BTS
		..	..	250	672	0	..	..	84	0	†s4BTS

granules	..	..	73	0	..	..	9	1½	†s4BTS	
<i>R</i> <b>Precortisyl</b> (1087 Roussel)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
			500	294	0	..	..	36	9	TS
	5 mgm	..	30	78	0	..	..	9	9	TS
			100	216	0	..	..	27	0	TS
			500	960	0	..	..	120	0	TS
<i>R</i> <b>Prednelan</b> (518 Glaxo)	tablets 1 mgm	..	100	5	6ea	..	..	7	4	TS
			500	24	6ea	..	..	32	8	TS
	5 mgm	..	100	18	0ea	..	..	24	0	TS
			500	80	0ea	..	..	106	8	TS
<i>R</i> <b>Prednisone</b> (759 L & B)	tablets 1 mgm	..	30	2	1ea	..	..	3	2	TS
			100	5	3ea	..	..	7	11	TS
			500	24	0ea	..	..	36	0	TS
	5 mgm	..	30	6	6ea	..	..	9	0	TS
			100	17	6ea	..	..	26	3	TS
			500	77	6ea	..	..	116	3	TS
	buffered 5 mgm	..	30	6	0ea	..	..	9	0	TS
			100	17	6ea	..	..	26	3	TS
			500	77	6ea	..	..	116	3	TS
<i>R</i> <b>Prednisone</b> (147 Boots)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
			500	294	0	..	..	36	9	TS
	5 mgm	..	100	216	0	..	..	27	0	TS
			500	960	0	..	..	120	0	TS
<i>R</i> <b>Prednisone</b> (938 PD)	tablets 1 mgm	..	25	30	0	..	..	3	9	TS
			100	66	0	..	..	8	3	TS
			500	294	0	..	..	36	9	TS
	5 mgm	..	25	66	0	..	..	8	3	TS
			100	216	0	..	..	27	0	TS
			500	960	0	..	..	120	0	TS
<i>R</i> <b>Prednisone</b> (969 Pfizer)	tablets 1 mgm	..	100	66	0	..	..	8	3	TS
			500	294	0	..	..	36	9	TS
	5 mgm	..	100	216	0	..	..	27	0	TS
			500	960	0	..	..	120	0	TS
<i>R</i> <b>Prednisone</b> (1263 Upjohn)	tablets 5 mgm	..	100	18	0ea	..	..	..	..	TS
			500	80	0ea	..	..	..	..	TS
<i>R</i> <b>Prednisolone</b> (837 MSD)	tablets 1 mgm	..	100	5	6ea	..	..	..	..	TS
			500	24	6ea	..	..	..	..	TS
	5 mgm	..	100	18	0ea	..	..	..	..	TS
			500	80	0ea	..	..	..	..	TS
<i>R</i> <b>Prednisolone</b> (759 L & B)	tablets 1 mgm	..	30	2	1ea	..	..	3	2	TS
			100	5	3ea	..	..	7	11	TS
			500	24	0ea	..	..	36	0	TS
	5 mgm	..	30	6	0ea	..	..	9	0	TS
			100	17	6ea	..	..	26	3	TS
			500	77	6ea	..	..	116	3	TS
	buffered	..	30	6	0ea	..	..	9	0	TS
			100	17	6ea	..	..	26	3	TS
			500	77	6ea	..	..	116	3	TS
<i>R</i> <b>Prednisolone</b> (938 PD)	tablets 1 mgm	..	25	30	0	..	..	3	9	TS
			100	66	0	..	..	8	3	TS
			500	294	0	..	..	36	9	TS
	5 mgm	..	25	66	0	..	..	8	3	TS
			100	216	0	..	..	27	0	TS
			500	960	0	..	..	120	0	TS

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# ANDROGENS AND ANABOLISM

## *The use of sex hormones in restoring protein balance*

S. J. HOPKINS

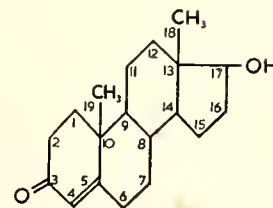
**L**IFE is maintained in the body by a continuous process of chemical change, in which the tissues are broken down by wear and tear, and simultaneously rebuilt. The former process is known as catabolism, the building-up process as anabolism. In the healthy adult those processes are in equilibrium.

Trauma, disease and other factors can upset the balance, and then the anabolic process may fail to equal the rate of tissue breakdown. The lack of balance soon shows itself by the familiar loss in weight that occurs during illness and after injury or surgery. That loss in weight is referred to as a negative protein balance, and the use of high protein diets during convalescence is based on the necessity for restoring a normal protein balance as soon as possible. Such high-protein diets are of considerable value, but in many chronic conditions, as well as after severe and acute illness, the protein loss may be beyond full control by dietary measures alone.

The need for more powerful means of restoring the protein balance has long been recognised. For many years no therapeutic substances that could effectively stimulate protein synthesis were known, but when testosterone was isolated, and later became available for clinical use, it was found that, apart from its main value as a powerful androgen, it also caused a decrease in the urinary excretion of nitrogen, phosphorus and potassium. The increased retention of those elements in the body is associated with the formation of new tissues, and the rapid growth and development of the adolescent male is a familiar example of the anabolic effects of endogenous testosterone. Such an action has considerable potential value from the clinical point of view, but in practice the anabolising action of testosterone is limited by its androgenic properties. In con-

the structure of cortisone and other adrenal steroids opened up new methods of synthesis. Since then a number of testosterone-related compounds have been described in which the anabolic properties have been increased, accompanied by a corresponding reduction in the virilising action. The ratio of the anabolic to the androgenic potency is known as the anabolic enhancement factor, which in some available compounds may be as high as 15-1. Anabolic activity of that magnitude has extended the therapeutic applications of the new derivatives to the treatment of both female patients and children, and in suitable doses virilising effects such as the growth of facial hair and deepening of the voice are virtually absent.

The chemistry of the compounds is far from simple. Using the testosterone skeleton as a framework, however, an oxygen or hydroxyl group at the C<sub>3</sub> position appears to be essential for adequate potency. The removal of the methyl group of testosterone at C<sub>10</sub> may also affect the potency of some compounds, as may the removal of hydrogen and the formation of double bonds at positions 1-2, 4-5 and 5-6. In that connection it is of interest to recall that the introduction of a double bond at the 1-2 position in the cortisone molecule (which has a similar steroid skeleton) results in the formation of the much more potent derivative prednisone. The table shown below gives some of the chemical relationships between the available members of the groups of drugs.



### Indications

The anabolic steroids listed are used in a wide variety

Approved or non-proprietary names	Brand name	Presentation	Structure at positions					Position of double bonds
			2	3	10	17 $\alpha$	17 $\beta$	
Mestanolone	Androstalbone (Roussel)	Tablets, 25-mgm.	H <sub>2</sub>	O=	CH <sub>3</sub>	CH <sub>3</sub>	OH	—
Methandienone (methandrosthenolone)	Dianabol (Ciba)	Tablets, 5-mgm., Solution, 1-mgm. per cc.	H	O=	CH <sub>3</sub>	CH <sub>3</sub>	OH	1-2 4-5
Methylandrostenediol	Stenediol (Organon)	Tablets, 10-mgm. and 50-mgm.	H <sub>2</sub>	OH	CH <sub>3</sub>	OH	CH <sub>3</sub>	5-6
Nandrolone- $\beta$ -phenyl propionate	Durabolin (Organon)	Ampoules, 25-mgm.	H <sub>2</sub>	O=	H	H	C <sub>6</sub> H <sub>5</sub> — CH <sub>2</sub> —CH <sub>2</sub> — COO—	4-5
Norethandrolone	Nilevar (Searle)	Tablets, 10-mgm., Ampoules, 25-mgm., Solution, 0.25 mgm. per drop.	H <sub>2</sub>	O=	H	CH <sub>3</sub> CH <sub>2</sub>	OH	4-5
Oxymetholone	Adroyd (Parke, Davis) Anapolon (I.C.I.)	Tablets, 5-mgm.	—CHOH	O=	CH <sub>3</sub>	CH <sub>3</sub>	OH	—
Stanolone (Androstanolone)	Anabolex (Lloyd-Hamol) Anaprotin (Unipharm) Lysinex (Lloyd-Hamol)	Tablets, 25-mgm., Tablets, 25-mgm., Tablets, 10-mgm., with lysine 300-mgm.	H <sub>2</sub>	O=	CH <sub>3</sub>	H	OH	—

sequence, many attempts have been made to find alternative compounds.

Testosterone, however, is a steroid, i.e., a sterol derivative, that exhibits a four-ringed structure built up from three hydrogenated benzene rings and a cyclopentane ring. It is therefore a complex substance, and little progress was made in the preparation of derivatives until researches into

of conditions in which loss of weight is a complicating factor. For example, in chronic weakening conditions such as tuberculosis, carcinoma, poliomyelitis, etc., in severe burns where protein loss may be considerable, and in geriatrics, malnutrition and convalescence. The anabolic effects of the drugs in the group are also associated with an increased retention of calcium in the body, and in con-

sequence they may be of value in osteoporosis, a condition that may occur after treatment with corticosteroids, and also in the chronic backache experienced often by the aged, and possibly due to decalcification of bone. A further application is in the supplementary treatment of renal failure as, by reducing the rate of tissue breakdown, they hinder a rise in the concentration of urea in the blood.

On the whole, the drugs are well tolerated in standard doses. They should not be given in prostatic carcinoma, because in such a condition the residual androgenic action

of the compounds is undesirable; also, as they stimulate the metabolic activity of the liver, they should not be given in hepatic disease. As indicated above, the virilising action of the anabolic steroids, though markedly reduced when compared with that of testosterone, has not yet been eliminated. The products should not therefore be given to children for long unbroken periods, as such patients are much more sensitive than adults to the slight androgenic action of the compounds and should be kept under medical supervision during treatment.

## A SUPPLEMENT TO "MARTINDALE"

*Change of practice reflects quickening pace of pharmacology*

T. D. WHITTET

**The Extra Pharmacopœia, Supplement 1961**

Pharmaceutical Press, London. 7½ x 4¾ in. Pp. 315. 32s. 6d.

THE publication of a supplement to both volumes of the Extra Pharmacopœia (Martindale), instead of a new edition of Volume II, represents a change of policy. Until the present occasion a new **completely revised** edition was produced every three or four years, with an interval of two or three years between the publication of the first and second volumes of each edition. New drugs and preparations are being introduced at such an increasing rate, however, that the provision of information upon them, usually included in Volume I, has become more important than revision of the contents of Volume II. The contents of the second volume are mainly subjects that change at a much slower rate, but it too needs supplementary information rather than alteration of the existing text. The new arrangement is therefore rational, and the same policy of more frequent revisions of Volume I and fewer of Volume II, with supplements as necessary, will probably continue.

The preface to the Supplement points out that about 200 new drugs and 800 proprietary medicines have been introduced in Great Britain since the publication of the previous edition of Volume I in 1958. All are described in the usual Martindale manner, giving details of properties, actions, uses, toxic effects, preparations, trade names (both British and foreign) and legal information.

In addition to the comprehensive section on new official and ethical proprietary drugs there is an extensive list of the constituents of "counter" proprietaries, supplementing that given in Volume II of the twenty-third edition. That information is often valuable to the doctor who wishes to know the ingredients of proprietary medicines that his patients may have been taking. It can also be useful in deciding on the possible treatment of toxic effects of such preparations. The length of the list suggests that there has been little decline in self-medication since the inauguration of the National Health Service.

An early reaction to the list of new drugs is amazement that so many preparations that are already established as important medicaments have come into use within the past three years, for example, the chlorothiazide group of diuretics, the antibiotic griseofulvin and the adrenergic-blocking antihypertensive drugs.

It is impossible to mention here more than a few of the new drugs described, but the following are among the more important. (Names of the acid radicals have been omitted with most compounds.)

**ANTIBIOTICS:** There are four derivatives of the older antibiotics: potassium phenethicillin (Broxil), which gives a high blood level after oral administration; and sodium methicillin (Celbenin), used by injection against penicillin-resistant organisms; chloramphenicol sodium succinate, a water-soluble derivative for use by injection; and demethyl-chlortetracycline, said to be more active and to give an effective blood level for a longer time than the other tetracyclines.

Vancomycin (Vancocin) and ristocetin (Riston, Spontin) have approximately the same spectrum of activity as erythromycin but cause no cross-resistance either with that antibiotic or with penicillin. The two new drugs must be given by intravenous injection, so their use is limited to organisms resistant to the more usual antibiotics.

Amphotericin (Fungizone) is the first antibiotic active against systemic fungal infections, and griseofulvin (Fulcin, Grisovin) the most effective substance against ringworm of the skin and nails. Kanamycin (Kannasyn) has actions similar to those of neomycin, with which it shows cross-resistance. It is less toxic than neomycin and may be used by injection in systemic infections. Paromomycin (Humatin) is effective in amœbic and bacillary intestinal infections.

**HORMONES AND DERIVATIVES:** New corticosteroids include betamethasone, dexamethasone, methylprednisolone and triamcinolone. In those compounds the structure of cortisone has been modified to increase activity to varying degrees and to reduce side effects, such as sodium and water retention.

There are also numerous sex-hormone derivatives, including one androgen: fluoxymesterone (Ultandren); five progestogens: allylestrenol (Gestantin), dimethisterone (Secrosteron), norethisterone (Primolut N), norethynodryl (in Conovid and Enavid, which are also used for the control of fertility) and hydroxyprogesterone capronate (present in the long-acting injection Primolut Depot); and three anabolic steroids, methandienone (Dianabol), oxymethalone (Anapolon) and stanalone (Anabolex).

**ANTI-INFECTION DRUGS:** These include three long-acting sulphonamides: sulphadimethoxine (Madribon); sulphamethoxypyridazine (Lederkyn, Midicel); and sulphaphenazole (Orisulph); two antimalarials: chlorproguanil and hydroxychloroquin; one antituberculous drug: ethionamide (Trescatyl); one antileprotic: ditophal (Etisul); and several miscellaneous anti-infectives. Of those, two are furazole derivatives: furaltadone (Altafur), claimed to be a potent systemic antibacterial drug; and furazolidone (Furoxone), used orally for intestinal infections and diarrhoea and locally for vaginal trichomoniasis. Dequalinium chloride (Dequadin) has both antibacterial and antifungal actions and is used in lozenges and paints for oral infections and as pessaries for trichomoniasis. Metronidazole (Flagyl) is exceptional in being used orally for the latter condition.

**ANTHELMINTICS:** Bephenium (Alcopar) is effective for the treatment of round- and hook-worm infections, whilst dithianazine has been called a "broad-spectrum" anthelmintic, being active against threadworms, roundworms, whipworms and strongyloides.

**ANTIHYPERTENSIVES:** One of these is a ganglion-blocking drug resembling mecamlamine but with a shorter duration of action. The other two — bretylium tosylate (Darenthin) and guanethidine (Ismelin)—represent a new type of drug: the peripheral adrenergic blocking agent. The compounds have an antihypertensive effect without the side effects of the ganglion-blocking drugs, which block parasympathetic as well as sympathetic actions.

**CYTOTOXIC DRUGS:** Cyclophosphamide (Endoxana) and Thio-tepa are used for the treatment of neoplastic disease.

**HYPOGLYCÆMIC DRUGS:** One of these, chlorpropamide (Diabinese), is a sulphonamide derivative related to tolbutamide but having a longer action. The other two are the diguanides: metformin (Glucophage) and phenformin (Dibotin), which have a different mode of action from that of the sulphonamide hypoglycæmics.

**DIURETICS:** In this group several drugs represent a considerable advance on the drugs previously available, the most important being chlorothiazide (Saluric) and its derivatives hydrochlorothiazide (Direma, Esidrex, Hydril, Hydrosaluric, Hydrothide); hydroflumethiazide (Di-Adremil, Hydrenox, Hydril F, Naclex); bendroflumazide (Aprinox, Centyl, Hydril B, Neo-Naclex); benzthiazide (Fovane); and chlorthalidone (Hygroton). The main difference between those drugs is in potency. Claims of smaller potassium excretion with the newer drugs are not firmly established. A similar type of drug with a different nucleus is disulphamide (Disamide). Amisometradine (Rolicton) resembles aminometradine (Mictine), but those compounds are less effective than the chlorothiazide group. A new carbonic-anhydrase inhibiting drug, dichlorophenamide (Daranide), has a diuretic action but is mainly used for the treatment of glaucoma. Spironolactone (Aldactone) is a diuretic of quite different action, being an inhibitor of the mineralo-corticoid aldosterone.

**ANALGESICS:** Of the four new analgesics, two are subject to the Dangerous Drugs Act: oxymorphone (Numorphan), a morphine derivative said to cause fewer side effects; and dextromoramide (Palfium), a drug with some structural resemblance to methadone and having a powerful analgesic action. Dextropropoxyphene (Doloxene), though formerly classified as a Dangerous Drug, is now exempt. It is used by mouth against the pain of chronic or recurrent diseases such as rheumatoid arthritis and migraine. Although ethoheptazine (present in Zactirin) is chemically related to pethidine, it is said to be unlikely to cause addiction. The drug is used orally, usually along with aspirin, for the alleviation of moderately severe pain of musculoskeletal origin.

**DRUGS ACTING ON THE CENTRAL NERVOUS SYSTEM:** Many new drugs with a variety of types of action on the central nervous system are included. Four are tranquillisers of the phenothiazine group: perphenazine (Fentazin), flupromazine (Vespral), prochlorperazine (Stemetil) and trimeprazine (Vallergan). The first two have similar actions to those of chlorpromazine but fewer side effects, whilst prochlorperazine and trimeprazine have, in addition to their tranquillising action, marked antiemetic and antihistaminic actions respectively.

Chlordiazepoxide (Librium) has tranquillising, anticonvulsant and muscle-relaxant actions. Nialamide (Niamid), iproniazid and pheniprazine (Cavodil) are inhibitors of monoamide oxidase and therefore have an antidepressant action, whilst imiprazine (Tofranil) and deanol (Deaner) are antidepressive without inhibiting that enzyme. Methaqualone (Melsedine) and thalidomide (Distaval) are non-barbituric hypnotics, ethotocin (Peganone) and ethosuximide (Emeside, Zarontin) are anticonvulsants and chlorphenoxamine (Chlorevan) and phenglutarimide (Aturbane) are anti-parkinsonism drugs.

The list of new drugs and proprietary medicines is arranged alphabetically under approved names with cross references for trade names. In addition to the main list there are three pages of addenda, including preparations introduced quite recently. The names and addresses of the manufacturers are given in an appendix.

Other information given includes extensive analytical addenda and supplementary notes on bacteriology, sterilisation, disinfectants and blood transfusion. Outstanding are sections on sterilisation by gases and by ionising radiations, the preparation of eye drops and the sterilisation of dressings and plastics.

**DIAGNOSTIC AGENTS:** These include azuresin (Diagnex blue), used for the detection of achlorhydria; sodium anoxysulphonate (Coomassie blue), for determination of cardiac output and of blood volume, and three cholecystographic media, sodium ipodate (Biloptin), calcium ipodate (Solu-biloptin) and bunamiodyl sodium (Orabilex).

## NEW FILMS AND FILMSTRIPS

### Food Hints for the Over 60's

*Camera Talks*, 23 Denmark Place, London, W.C.2. 35-mm.

"AN important educational document in full colour" is the description given by the producers to this new film strip, which is being shown by health departments in sixty-three



countries. Its production was supervised by the medical officer of health at Dagenham, Essex. The picture shows a health visitor giving advice on the right things to eat and on the way to plan limited money to the best advantage.

### The Intruders

*Rentokil Film Unit*, for Rentokil Group, Ltd., 16 Dover Street, London, W.1. 16-mm. Colour, Sound. Running time: 16 minutes.

FOLLOWING on from the Group's two earlier productions ("The Challenge," dealing with rat infestation, and "House for Sale," describing the path of woodworm) this film relates the life history and habits of cockroaches, and describes methods employed to exterminate them. Dramatised sequences in close-up show food products riddled with the "intruders," which are seen to leave trails of regurgitated matter and excrement—ideal breeding grounds for bacteria. In the absence of food, they resort to cannibalism. Their elimination is brought about by a combination of hygienic conditions and suitably placed insecticides.

## Any Business Questions

*I want to introduce my wife as a partner in my retail business. She is a pharmacist and already assists me, but at present, my business is registered in my own name.*

THE name of the business need not be altered but you should complete a notice of cessation (form RBN 4) in your own name and reregister the new proprietorship—that is the partnership—on form RBN 3 (obtained from the Registrar of Business Names, Lacon House, Theobalds Road, London, W.C.1). No fee is required on the cessation notice but a fee of 5s. is payable, by stamps or postal order, on the new registration. Registration should be effected within fourteen days after commencement of the partnership. The registrar issues a new certificate which is required to be kept exhibited in a conspicuous position (at the principal place of business). There should be clearly shown on business letters, showcards, trade circulars, etc., the present Christian names, or initials, and surnames, also any former

names used since attaining the age of eighteen years (or during the past twenty years) and nationality, if not British, of each partner. Failure to observe those requirements may give rise to penalties.

## Onward from Galen

### A CURRENT CAUSERIE

SALES of cosmetics have doubled in the last decade, and the upward trend is likely to go on particularly in Britain and Europe. Such is the opinion of Mr. Davis Factor (chairman and chief administrative executive of the Max Factor Organisation), who has been on a private visit to London (see *C. & D.*, July 15, p. 57). The chief reasons for the anticipated expansion he gave were: (1) Girls beginning to use cosmetics at an earlier age—in America it was not unusual for make-up to be worn by girls of thirteen or fourteen

years of age; (2) an increase in population and (3) "depth" of usage. Qualifying the third point, Mr. Factor mentioned that the day when one lipstick was used for all occasions had gone. Through the Press and other mediums girls were now more fashion conscious and sought a lipstick to match each dress. Eye make-up was being increasingly worn although compared with the United States the percentage of users in Britain was still small. The same could be said of perfumes and toilet water (now, it seems, described as "fragrances"). All this appears to augur well for the retail chemists who still handle a large share of cosmetic sales. There is however one "fly in the ointment," which is already well known to pharmacists, and that is the difficulty in stocking the vast number of items that are marketed today. The need for careful stock-keeping, particularly when the items bear such a high rate of purchase tax, grows daily with the number of products.

## After Qualification

### AN ADDRESS TO NORTHERN IRELAND STUDENTS

THE pharmacist now must be reconciled to the fact that his manipulative skill is not required so much as his knowledge of the new and often potent medicines, eleven newly qualified students were told in Belfast on July 20. Mr. A. TEMPLETON (president of the Pharmaceutical Society of Northern Ireland) told the students that the pharmacist of today had a wide choice of career — commercial, wholesale, hospital or retail pharmacy.

Addressing those who would enter retail pharmacy, Mr. Templeton said that its practice had altered much in the past fifteen to twenty years, and great changes had been made in the pharmacist's education. Few were now called upon to compound pills, suppositories, cachets, etc., but they were expected to have a knowledge of, and the ability to advise on, the many new products on the market today. Fifteen years ago prescription reading had been often a problem but, as the pharmacist had been familiar with 99 per cent. of the items of a prescription, he had had something to go on. Today with the spate of new remedies, the problem had become "a very severe headache."

In order to equip the student to engage successfully in pharmacy, their course had been a difficult one. Many might consider it too difficult. He trusted, however, that they now had the knowledge and ability to deal with



THE president of the Pharmaceutical Society of Northern Ireland with Mr. Derek Lawson, winner of the Associates' prize for physics; Miss Mary Hackett (Associates' prize for Pharmaceutics II), and Mr. Desmond Spence (J. A. M. Shaw prize for pharmacognosy).

the problems which were certain to arise with the introduction of those new medicaments. If their education had not done this for them it had failed.

Mr. Templeton said that from now on they must take an interest in all the practical matters, both professional and economic, concerning pharmacy.

He suggested two things—that they make a habit of reading regularly at least one of the journals and that they do some post-graduate study.

"At one time the botany section of the course for the final demanded a comprehensive knowledge of more than a dozen natural orders and the candidate was required to place every drug in the B.P. under its N.O.," he con-

tinued. "A more useful and important classification is the pharmacological one and I feel certain that post-graduate study in this direction will be very rewarding."

Mr. Templeton said there were two publications which would tell the newly qualified students all they needed to know — the alternative edition of the British National Formulary, which had a pharmacological instead of an alphabetical arrangement, and a monthly booklet that listed in a similar manner current "ethicals" together with the new items. That information in them, he said, would enable the new pharmacists to discuss remedies with their medical friends in an intelligent manner. Mr. Templeton also advised the successful students to take an interest in the Council and the activities of the Society. "Remember that today's graduates may become the future members of the Council," he declared.

He also asked the graduates to read carefully and accept the advice contained in the copies of the statement upon matters of professional conduct, enclosed with their certificates. "You are then more likely to deserve and obtain the respect of your fellow pharmacists and that is something money cannot buy," he said.

Mr. Templeton presented certificates of qualification to eight students.

Miss Mary Hackett was awarded the Associates' prize for pharmaceutics I,

Mr. D. Lawson the Associates' prize for physics, Mr. D. Spence the J. A. M. Shaw prize for pharmacognosy and Mr. J. Johnston, who was not present, the Associates' prize for pharmaceutics II.



Mr. A. Templeton (president of the Pharmaceutical Society of Northern Ireland), wearing his chain of office, with newly qualified students to whom he presented certificates.



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## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 9: Despite holiday influences, some sectors of the CRUDE DRUGS market reported a reasonably satisfactory level of trading in the past week. PHARMACEUTICAL CHEMICALS, however, lacked interest and the volume of business done undoubtedly reflected the normal seasonal slow-down.

Brazilian MENTHOL was sixpence per lb. higher for shipment at 45s., c.i.f. Sarawak PEPPER declined one penny per lb. Among AROMATIC SEEDS Indian CORIANDER was marked up by 3s. 6d. per cwt. in the forward position.

A fall in the price of LEMONGRASS provided the main feature of the ESSENTIAL OILS market; shipment quotations fell by one shilling per lb. Chinese PEPPERMINT, which has displayed a weak tone recently, continued its decline and at 34s. spot and 27s., c.i.f., the prices represented a fall of one shilling in both positions. There were offers of East Indian SANDALWOOD at 170s. per lb. both spot and forward, but Mysore was not quoted.

### Pharmaceutical Chemicals

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., 1s. 1d. ACID TARTRATE, B.P., 1 kilo, 7½d.; 500 gm. 9d.

AMIDOPYRIN. — Per lb. 16s. 8d. for 5-cwt. lots; 1-cwt., 17s. 5d.; less than 1-cwt., 18s. 5d.

AMPHETAMINE. — One to 10-kilo lots; BASE, from 140s. to 160s.; SULPHATE, 110s. to 130s. and d-AMPHETAMINE SULPHATE 405s. to 420s.

AMYLOBARBITONE. — B.P.C. is 82s. 6d. per kilo for less than 25-kilo lots and SODIUM, B.P.C., 92s. 6d. per kilo.

BARBITONE. — Less than 25-kilo lots, 53s. 6d. per kilo. SODIUM derivative, 56s. 9d. per kilo.

BISMUTH SALTS. — Prices (per lb.) in packages over 2-lb.:—

	28 lb. to 1 cwt.	1 cwt.	5 cwt.
	s. d.	s. d.	s. d.
CARBONATE ..	20 6	20 0	19 6
SALICYLATE ..	20 3	19 9	19 3
SUBGALLATE ..	19 9	19 3	18 9
SUBNITRATE ..	18 6	18 0	17 6

The AMMONIUM CITRATE is 55s. per lb. and SODIUM TARTRATE, 35s.; OXIDE, 26s. 10d.; OXYCHLORIDE, 27s. 3d.; SALICYLATE, 19s. 9d., in cartons of 28-lb.

BRUCINE. — Per oz. ALKALOID is 8s. and SULPHATE, 7s.

BUTOBARBITONE. — B.P.C., 87s. 6d. per kilo in less than 25-kilo lots.

CHLOROCRESOL. — Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

CHLOROXYLENOL. — B.P., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton.

CITRIC ACID. — Domestic powder and crystals (in kegs) per cwt., 1-4-cwt. lots, 186s. per cwt. 5-19-cwt., 182s.; 1 ton, 181s. In paper bags, prices are 179s., 175s. and 174s., respectively.

CYCLOBARBITONE. — Less than 25 kilos: B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

HYOSCINE HYDROBROMIDE. — Per oz., 102s.

IODIDES. — (Per kilo). Potassium, 50-kilo lots 19s. 3d.; SODIUM, 24s. 3d. for 25-kilo lots, AMMONIUM, 44s.

IODINE. — Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

IODOFORM. — Powder (per kilo), 51s. 6d. in 50-kilo lots; less than 50-kilos, 53s. Crystals are 3s. per lb. more.

MERCURY DERIVATIVES. — Per kilo, under 50-kilo lots: — AMMONIATED MERCURY, B.P., lump or powder, 54s. 6d.; PERCHLORIDE, B.P.C. powder, 46s. 9d.; SUBCHLORIDE (calomel), B.P.C., 53s. 6d.; OXIDES, yellow, B.P., 56s.; red, B.P.C., 1949, 57s. 3d.

METHYL PHENOBARBITONE. — B.P.C., 95s. per kilo for less than 25-kilo lots.

NARCOTINE. — ALKALOID and HYDROCHLORIDE, 3s. 9d. per oz. (132s. kilo) for under 35-oz. lots.

OPIATES. — Home trade prices (per oz.) subject to D.D.A. Regulations:—

	35 oz. and over	Under 35 oz.
	s. d.	s. d.
CODEINE		
PHOSPHATE ..	41 0	42 0
HYDROCHLORIDE ..	47 3	48 3
S. LPHATE ..	47 3	48 3
ALKALOID ..	54 0	55 0
MORPHINE		
A. ETATE ..	50 0	51 0
HYDROCHLORIDE ..	50 0	51 0
S. LPHATE ..	50 0	51 0
TARTRATE ..	60 0	61 0
ALKALOID ..	61 3	62 3
ETHYLMORPHINE		
HYDROCHLORIDE ..	54 0	55 0
ALKALOID ..	63 3	64 3
DIAMORPHINE		
ALKALOID ..	54 9	55 9
HYDROCHLORIDE ..	59 9	60 0

PENTOBARBITONE. — Under 25-kilo lots, 115s. per kilo; SODIUM, 120s.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A. Regulations, 229s. 2d. per 250 gm.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d. 500-gm., 54s. 6d. SODIUM SALT unchanged at 55s. 6d. per kilo for 5-kilo lots.

PHENYTOIN SODIUM. — One-cwt. lots, 23s. per lb.; less than 56-lb., 25s.

PICROTOXIN. — Per oz. 45s. 6d. (4-oz.).

PILOCARPINE. — In 1-kilo lots prices are: HYDROCHLORIDE, 1,013s. per kilo; NITRATE, 825s.

PROCAINE HYDROCHLORIDE. — 100-kilo lots, 45s. per kilo.

QUINALBARBITONE. — Under 25-kilos, 130s. per kilo.

QUINIDINE. — For 15 kilos or 500 oz. or more:—

Home Trade	Per kilo	Per 100 oz.
	s. d.	s. d.
QUINIDINE		
S. LPHATE ..	199 1	564 6
ALKALOID cryst. ..	260 8	739 1
ALKALOID precip. ..	263 9	747 9
HYDROCHLORIDE ..	223 0	632 1
HYDROBROMIDE ..	216 11	615 0
GLUCONATE ..	221 9	628 9

Prices include tins and cases and free delivery U.K.

QUININE. — 1,000-oz. lots: — ALKALOID, 3s. 8½d. per oz.; SULPHATE, B.P., 1932, 2s. 5d.; SULPHATE, B.P., 1958, 2s. 8½d.; BISULPHATE, 2s. 5½d.; DIHYDROCHLORIDE, 3s. 5d.; HYDROCHLORIDE, 3s. 1½d.; ETHYL CARBONATE, 4s. 1½d.; HYDROBROMIDE, 3s. Quantities under 100 oz. plus threepence.

SACCHARIN. — B.P.C. powder. One lb. and over, 108s. 2d. per lb.; SODIUM SALT, 87s. 6d. per lb. Prices include duty and carriage.

SAL PRUNELLA. — Balls, 3s. 10d. per lb. in 1-cwt. lots.

SANTONIN. — 5-kilo lots, 400s. per kilo (11s. 4d. per oz.).

STRYCHNINE. — 100-oz. lots: ALKALOID and HYDROCHLORIDE, 10s. 6d. per oz.; SULPHATE, 9s. 6d.

SULPHACETAMIDE. — One-cwt. lots, 24s. 6d. per lb. SODIUM derivative, 30s.

SULPHAGUANIDINE. — One-cwt. lots, 11s. per lb.

SULPHANILAMIDE. — One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE. — Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE. — 100-kilos, 32s. kilo; 50 kilos, 33s.

SULPHOCARBOLATES. — SODIUM PHENOSULPHONATE, B.P.C., 1949 (powder), 5s. 6d. per lb in 1-cwt. lots and ZINC, B.P.C., 1949 is 5s. 6d.

SULPHUR. — SUBLIMED FLOWERS, B.P., £50 ton; COMMERCIAL, £45; POWDER, £19 to £24; PRECIPITATED, B.P., £110; ROLL £24 10s. All ex store.

SULPHURIC ACID. — Nipence to 1s. 2½d. per lb. in Winchester.

TALC. — One-ton lots, B.P.C., in kegs, 1s. 2½d. lb. ex works.

TARTARIC ACID. — (In kegs): 1-ton lots, 292s. per cwt.; 10-19 cwt., 294s.; 5-9 cwt., 296s.; 1-4 cwt., 298s. Bags 8s. cwt. less. Crystals 7s. cwt. more than powder and granular.

THEOBROMINE. — ALKALOID in 50-kilos, 45s. per kilo; CALCIUM SALICYLATE, (12½-kilos), 49s. per kilo; and SODIUM SALICYLATE, 46s.

THEOPHYLLINE. — 12½-kilo lots: ALKALOID ANHYDROUS, 33s. per kilo and B.P., 32s. 6d.; AMINOPHYLLINE, 30s. per kilo, 12½ kilos; 31s. per kilo.

### Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR. — Kobé No. 1, 14s. 6d. per lb. in bond; shipment, 14s. 3d., c.i.f.

ALOES. — Cape primes, spot, 175s. per cwt.; shipment, 155s., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS. — Per lb.: CANADA: To arrive, 20s. landed. COPAIBA: Spot scarce at 10s., duty paid. PERU: Spot, 8s. 9d. in bond. TOLU (genuine as imported), 30s. to 32s. 6d.; B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA. — LEAVES, 1s. 6d. per lb., spot. Dutch for shipment (t.a not quoted) 2s., c.i.f. Root, 0-65 per cent., 1s. 9d. per lb., spot.

BENZOIN. — Sumatra block, spot £20 to £28 as to quality.

CALABAR BEANS. — Spot, 2s. 3d. per lb.

CALAMUS. — Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPOR. — B.P. powder, 3s. 10½d. per lb in bond.

CAPSICUMS. — Chinese, on stalk, 150s., per cwt., duty paid; Ethiopian, 150s.

CARDAMOMS. — Aleppy greens, 13s. 6d. per lb., spot; shipment, 11s. 6d., c.i.f.

CASCARA. — Spot, 1960 peel, 250s. to 265s. per cwt. as to holder: 1961 peel, for shipment, 245s., c.i.f.

CLOVES. — Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7½d., c.i.f.

DIGITALIS. — *Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI. — Spot, 2s. 1d. per lb. Shipment, 1s. 11d., c.i.f.

ERGOT. — Portuguese 7s. 6d. per lb., c.i.f., for prompt shipment; spot, 8s.

FENNEL.—Spanish sweet, spot, 10s. per lb.

FRANGULA.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot, French, 150s. per cwt.

GINGER.—(Per cwt.) African, spot, 225s.; new crop for shipment, 200s. per cwt., c.i.f. Jamaican No. 3, spot, 240s. Cochin, shipment, 145s., c.i.f.; spot, 150s.

GUM ACACIA.—Kordofan cleaned sorts, 142s. 6d. per cwt., spot; new crop, August–September shipment, 128s., c.i.f.

HENNA.—Indian, spot, 87s. 6d. per cwt.; shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 102s. 6d. to 107s. 6d. per cwt. and medium amber, 96s. to 98s. Argentine, 112s. to 115s. Jamaican, 115s. to 120s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA.—For shipment, c.i.f., per lb.—Costa Rican, 68s. 6d.; Matto Grosso, 51s.; Colombian, 49s. 6d. to 51s. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES.—Italian, 100s. per cwt.; German, 120s.

KOLA NUTS.—Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LIQUORICE.—Natural root: Persian on the spot 40s. per cwt.; Anatolian, 62s. 6d. Block juice: Anatolian from 190s. per cwt., Italian stick from 392s. to 470s. per cwt.

MENTHOL.—Chinese: spot, 68s. per lb., duty paid; shipment, 55s., c.i.f. Brazilian, 46s. 6d., in bond, shipment, 45s., c.i.f. (September–October), Formosan, 49s., in bond; shipment, 47s. 9d., c.i.f.

MERCURY.—About £63 per flask of 76-lb.

NUTMEGS.—West Indian 80's 12s. per lb., spot; sound unassorted, 8s. 9d.; defectives, 6s. 6d.

PEPPER.—White Sarawak, spot, 3s. 6d. per lb.; shipment, 3s. 5d., c.i.f. Black Sarawak, spot, 3s. 2d.; shipment, 3s., c.i.f. Black Malabar, 400s. per cwt. spot nominal and 377s. 6d., c.i.f.

SENEGA.—Spot 19s. 6d. per lb.; shipment, 17s. 6d., c.i.f.

SEEDS.—(Per cwt.) ANISE.—Egyptian, 185s., duty paid. CARAWAY.—Dutch, 140s., duty paid. CELERY.—Indian nominal at 210s. spot; shipment 187s. 6d., c.i.f. CORIANDER.—Moroccan, 130s. to 135s., duty paid, and Polish, 127s. 6d., duty paid. Indian bold, 105s. Shipment, Moroccan, 115s., and Indian bold, 88s., c.i.f. CUMIN.—Indian, 175s., spot; Iranian, 170s., duty paid. DILL.—Indian, 100s. spot; shipment, 88s. 6d., c.i.f. FENNEL.—Indian, 100s. FENUGREEK.—Moroccan, 97s. 6d., duty paid; shipment, 79s., c.i.f. MUSTARD.—English, 55s. to 82s. 6d. according to quality.

STYRAX.—Spot, 25s. 9d. per lb., shipment, 24s., c.i.f.

TONQUIN BEANS.—Para spot, 6s. per lb. Shipment nominal, Angostura 11s.

TRAGACANTH.—No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

TURMERIC.—Madras finger on spot 125s. per cwt.; shipment, 110s., c.i.f., quoted.

VALERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch new crop prices awaited.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES.—(Per cwt.) BEES'.—Dar-es-Salaam, spot, 455s.; shipment, 415s., c.i.f. Abyssinian, 375s. in bond; shipment 370s., c.i.f. Sudanese, spot, 415s.; shipment, 370s., c.i.f. CANDELILLA, spot, 465s. CARNAUBA, fatty grey, spot, 460s.; shipment, 455s., c.i.f.; prime yellow, spot, 700s. quoted; shipment, 670s., c.i.f.

WITCH HAZEL LEAVES.—New crop, to arrive, 3s. 3d. per lb. landed.

## Essential and Expressed Oils

ANISE.—Chinese, 7s. 10½d. per lb., spot; shipment, 7s. 10d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb.

BIRCH TAR.—Rectified 8s. per lb.

BOIS DE ROSE.—Brazilian, 13s. 6d. per lb. on the spot and 12s. 6d., c.i.f.

CADE.—Spanish, 2s. 9d. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CAMPOR, WHITE.—Chinese, 1s. 9d. per lb. in bond; 1s. 6d., c.i.f.

CANANGA.—Spot, from 37s. 6d. per lb.

CARAWAY.—Imported oil, 33s. 6d. per lb.

CASTOR.—Home produced B.P. oil, spot, £160 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified 9s. 6d. per lb. on the spot.

CELERY SEED.—Dutch oil, 90s. per lb. and Chinese, 65s.

CHAMOMILE.—Smalls 560s. per lb.

CHENOPODIUM.—B.P.C., oil 8s. per lb. on the spot.

CINNAMON.—From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, spot, 9s. 6d. per lb.; Seychelles, 7s., spot.

CITRONELLA.—Ceylon, spot, 6s. 4½d.; shipment, 5s. 10d. per lb.; c.i.f. Formosan, spot, 7s. 2d., in bond; shipment, 6s. 10d., c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 6d. per lb., duty paid; shipment, 6s. 10d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt. lots.

COD-LIVER.—B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CORIANDER.—B.P. oil, 52s. 6d. per lb., spot.

CUBE.—Small spot supplies of imported are 65s. per lb.; English, 90s.

JUNIPER.—B.P.C. 1949 oil is from 10s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LAVENDER.—French from 20s. to 50s. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 10s. 6d. per lb. for original drums.

LEMON.—Californian cold-pressed from 26s. per lb., spot; Sicilian cold-pressed, about 25s.

LEMONGRASS.—Spot, 18s.; August shipment, 16s., c.i.f.

LYCOPodium.—Indian 13s. per lb., spot, Russian not quoted.

NUX VOMICA.—Shipment (per cwt.) Cochin 70s., c.i.f.; Madras, 65s., c.i.f.

OLIVE.—Spot, 19s. to 19s. 6d. per gall. in drums ex wharf; shipment, £190–£205 per 1,000 kilos, f.o.b. Spanish port.

ORANGE.—Spot quotations of sweet oil include Floridan at 3s. 6d. per lb.; West Indian, 3s. 6d.; Israeli, 6s.

PEPPERMINT.—*Arvensis*: Chinese spot, 34s.; shipment, 27s., c.i.f. Brazilian spot, 15s. 6d.; shipment, 15s., c.i.f. *Piperita*: Italian, 48s. per lb., spot. American from 30s. to 45s. per lb. as to make.

PIMENTO.—English-distilled berry from 150s. per lb.; imported, 32s. 6d. Rectified leaf, 16s. per lb.

ROSEMARY.—Spanish is 9s. per lb. on the spot for best quality.

RUE.—Spanish is 19s. 6d. per lb. spot.

SANDALWOOD.—East Indian, spot, 170s. per lb.; forward, 170s., c.i.f.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—American oil on the spot 30s. per lb.

VETIVER.—Bourbon spot, 110s. to 112s. 6d. per lb.; shipment, 108s., c.i.f.

YLANG YLANG.—Spot, 37s. 6d. per lb.

## Synthetics and Isolates

(Prices per lb. in minimum 1-cwt. lots)

ACETOPHENONE.—Perfumers', 4s.; technical, 3s. 3d. AMYL ACETATE.—2s. 9d. AMYL BENZOATE.—7s. AMYL BUTYRATE.—4s. 6d. AMYL SALICYLATE.—4s. 6d. AMYL CINNAMIC ALDEHYDE.—8s. 6d. to 12s. 6d. as to quality. ANETHOLE.—Standard, 9s. 6d. ANISIC ALDEHYDE.—Ex paracresol, 17s. 6d.; ex anethol, 21s. 6d.

BENZALDEHYDE.—3s. 6d. to 4s. BENZYL ALCOHOL.—Perfumers', 3s. 2½d. BENZYL ACETATE.—3s. 8½d. BENZYL BENZOATE.—Perfumers', 5s. BENZYL CINNAMATE.—22s. BENZYL ISOEUGENOL.—60s. BENZYL PROPIONATE.—5s. 6d. BENZYL SALICYLATE.—7s. BENZYLIDENE ACETONE.—12s. BORNEOL.—Crystals, 21s. BORNYL ACETATE.—Iso, 2s. 9½d. BROMSTYROL.—32s. BUTYRIC ACID.—5s.

CINNAMIC ALCOHOL.—12s. CINNAMIC ALDEHYDE.—6s. CINNAMYL ACETATE.—23s. 6d. CINNAMYL BUTYRATE.—50s. CITRAL.—90–92 per cent., 30s.; 99–100 per cent., 37s. 6d. CITRONELLOL.—Ex Java, 19s.; standard, 98 per cent. total alcohols, 13s. COUMARIN.—18s. 3d.

DIETHYL PHTHALATE.—Perfumers', 3s. DIPHENYL MENTHANE.—5s. DIPHENYL OXIDE.—4s. 6d.

ETHYL BENZOATE.—5s. 6d. ETHYL BUTYRATE.—4s. 6d. ETHYL CINNAMATE.—15s. ETHYL OENANTHATE.—17s. 6d. ETHYL SALICYLATE.—7s. ETHYL VANILLIN.—44s. 6d. EUGENOL.—20s.

GERANIOL.—Ex Ceylon, 16s.; ex Palmarosa, 60s.; No. 1.—15s.; standard 98 per cent., 12s. GERANYL ACETATE.—Ex Java, 17s.

HELIOTROPINE.—17s. HYDROXYCITRONELLAL.—30s.

IONONE 100 per cent.—43s. ISOBUTYL ACETATE.—4s. ISOBUTYL BENZOATE.—7s. ISOBUTYL SALICYLATE.—8s. ISOEUGENOL.—21s. ISOPROPYL HYRISTATE.—4s. 1½d.

LINALOL.—99–100 per cent., 21s. LINALYL ACETATE.—Standard, 99–100 per cent., 21s.

METHYL ACETOPHENONE.—10s. METHYL ANTHRANILATE.—17s. 6d. METHYL BENZOATE.—6s. METHYL CINNAMATE.—17s. 6d. METHYL PHENYLACETATE.—8s. to 10s., according to quality. METHYL IONONE.—100 per cent., 43s. 6d. MUSK AMBRETTE.—26s. MUSK KETONE.—26s. MUSK XYLOL.—7s. MUSTARD OIL.—(Arl.), 12s.

NEROL.—Standard 93 per cent., 30s. NEROLIN BROMELIA.—7s. 6d. NEROLIN YARA YARA.—9s. 6d.

PARACRESYL ACETATE.—13s. 6d. PARACRESYL PHENYLACETATE.—23s. PHENYLACETALDEHYDE.—50s. PHENYLACETIC ACID.—7s. PHENYLETHYL ALCOHOL.—9s. 6d. PHENYLPROPYL ALCOHOL.—16s. 6d.

SAFROLE.—6s. SANTALOL.—300s., nominal. STYROLYLENE ACETATE.—9s.

TERPINEOL.—Perfumers', 3s. 6d. TERPYNYL ACETATE.—5s. 6d. TETRA HYDRO GERANIOL.—Standard, 98 per cent., 15s. TETRA HYDRO GERANYL ACETATE.—Standard, 17s. 6d.

VETIVEROL.—250s., nominal. VETIVERYL ACETATE.—225s., nominal.

## UNITED STATES REPORT

NEW YORK, AUGUST 8: Good export demand has helped the price tone of DDT. QUILLIA advanced in price, the whole bark now being quoted at 28 cents a lb., up 2¼ cents. Also higher among CRUDE DRUGS were ERGOT at \$2 a lb., up 25 cents, and TOLU BALSAM at \$5–10, up 60 cents. Bourbon VANILLA BEANS declined by 25 cents to \$6–75 a lb. East Indian SANDALWOOD OIL rose to \$28–25 a lb., up \$1–75. Lower per lb. among ESSENTIAL OILS were SPEARMINT at \$4–50, down 50 cents, and natural PEPPERMINT at \$4–25, down 25 cents.

## PATENTS

### COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," August 2

*Phthalazinium compounds and their pseudo basis and the anhydrides thereof*, CIBA, Ltd. 877,623. *Aliphatic acyl esters of oleandomycin*, Chas. Pfizer & Co., Inc. 877,730.

*Antibiotic rifomycin, its components and methods of preparing same*, Lepetit S.p.A. 877,732.

*Production of derivatives of heparin*, Uelaf, 877,635.

*Manufacture of pyran derivatives*, F. Hoffman-La Roche & Co., A.G. 877,639.

*Hydrazines and the manufacture thereof*, Upjohn Co. 877,642.

*Therapeutic compositions containing isoniazid*, Frank W. Horner, Ltd. 877,927.

*Preparation of cyanuric acid*, Food Machinery & Chemical Corporation. 877,725.

*Aryloxyaliphatic compounds*, Soe. des Usines Chimiques Rhone-Poulenc, 877,830.

*Process for the production of amine boranes*, Farbenfabriken Bayer, A.G. 877,863.

*Phosphoryl and thiophosphoryl isocyanates and isothioeyanates*, Armour & Co. 877,671.

*Process for the manufacture of certain substituted naphthalene sulphonic acids*, Farbenfabriken Bayer, A.G. 877,835.

*Organic tertiary phosphines*, American Cyanamid Co. 877,920.

*Phenyl cyanates and a process for their production*, Farbenfabriken Bayer, A.G. 877,840.

*Production of pure 1,4,5,6,7,7-hexachlorobicyclo-[2,2,1] - heptene - (5) - dicarboxylic acid - (2,3)*, Badische Anilin- & Soda-Fabrik, A.G. 877,003.

*Phosphoric acid ester derivatives of hydroxyalkyl or hydroxycycloalkyl esters of  $\alpha$ ,  $\beta$ -ethylenically unsaturated monocarboxylic acids*, 877,905.

*Preparation of steroids*, Upjohn Co. 877,636.

*Animal feeding stuffs*, James & Co. (Hungerford), Ltd. 877,691.

*Dispensing devices for aerosols*, United Drug & Chemical Co. (Midland), Ltd. 877,828.

*Method of producing phosphoric acid ester-containing cleansing and disinfecting agents in cake form*, Goldschmidt, A.G. 877,873.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 26

*For herbicides, fungicides and insecticides* (5) HERBONSTAN, 813,028, by Paul Bracey, Landford, Salisbury.

*For medicines and pharmaceutical products, but not including bandages or dressings or any goods of the same description* (5)

TENSANYL, 813,877, by Lovens Kemiske Fabriks Handelsaktieselskab, Ballerup, nr. Copenhagen, Denmark.

*For pharmaceutical preparations and substances for human and veterinary use; sanitary substances and disinfectants; but not including infants' and invalids' foods, or any goods of the same description* (5)

ALDERMAINE, 814,034, by Imperial Chemical Industries, Ltd., London, S.W.1.

*For preparations of vitamins and of minerals, being in tablet form and for use as nutritional aids for addition to foodstuffs* (5)

Device with word and letters NATURAVITE, VC, 814,362, by Organic Vitamin Co., Ltd., London, W.14.

*For pharmaceutical substances for use in the treatment of ailments of the heart and the circulation of the blood* (5)

GILCOR, 814,590, by Gebrüder Giuliani, G.m.b.H., Ludwigshaven-on-Rhine, Germany.

*For pharmaceutical substances and preparations for inducing sleep* (5)

BELSOMNIA, B814,900, by Eric Hayward, Chilham, Kent.

*For sanitary substances, disinfectants and deodorants, all in tablet form* (5)

TOILATABS, B816,894, by International Laboratories, Ltd., Chessington, Surrey.

*For medicated confectionery* (5)

DEX, 818,297, by Dexoid Products, Ltd., London, S.W.16.

*For all goods* (5)

PERIFENIL, 816,114, by Warner-Lambert Pharmaceutical Co., Morris Plains, New Jersey, U.S.A. MERASPAR, 817,016, by V. Merobian & Fils (Laboratoires Lacroix), Paris, 18e, France. ORANOSA, 819,437, by Lockwoods Foods, Ltd., Lond Sutton, Spalding, Lincs. TRIPHYS, 820,768, by A/S Dumex (Dumex, Ltd.), Copenhagen S, Denmark.

*For pharmaceutical preparations and substances for human and veterinary use* (5)

PREGNOSTICON, 818,664, ORGAMETRIL, 819,596, by Organon Laboratories, Ltd., London, W.C.2. WINALGIN, 819,584, by Winthrop Group, Ltd., Surbiton, Surrey.

*For insecticides, fungicides and weedkilling preparations* (5)

FERNACOL, GAMMACOL, IIEPTACOL, 818,880-82, by Plant Protection, Ltd., London, S.W.1.

*For photographic apparatus and instruments* (9) EURA, 799,229, by S.p.A. Ferrania, Milan, Italy.

*For cinematographic, photographic, measuring and optical apparatus and instruments, etc., and parts and fittings* (9)

Device, 810,800, by Rank Organisation, Ltd., London, W.1.

From the "Trade Marks Journal," August 2

*For biological reagents for use in "in vitro" diagnostic laboratory tests* (1)

PREGNOSTICON, 810,045, by Organon Laboratories, Ltd., London, W.C.2.

*For all goods* (1)

BOVUMIN, 814,228, by Ortho Pharmaceutical Corporation, Raritan, New Jersey, U.S.A.

*For plastics* (1)

ARRCOSTRENE, 817,668, by Rubber Regenerating Co., Ltd., Manchester, 17.

*For perfumes, essential oils, cosmetics, non-medicated toilet preparations and preparations for the teeth and the hair* (3)

DEL FALLA, 806,128, by Del Falla (Cosmetics), Ltd., Manchester, 1.

*For preparations for waving the hair* (3)

SATINOL, 807,309, by Hans Schwarzkopf, Hamburg-Altona, Germany.

*For all goods* (3)

PERFORMO, B809,497, by Larsons Produkte, A.G., Glarus, Switzerland. SOMEWHERE, 819,341, by Avon Cosmetics, Ltd., Northampton. MILLIONAIRESS, 820,148, by Physico-Chemical Processes, Ltd., London, N.W.11.

*For perfumes, toilet preparations (not medicated), cosmetic preparations and hair lotions* (3)

SABRE, 809,692, by Affiliated Manufacturers' Agencies, Ltd., Welwyn Garden City, Herts.

*For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, preparations for the hair, and soaps; cleaning, laundry, scouring and polishing preparations; all for application in spray form* (3)

SPRA-LOK, B813,692, by Spra-Lok Corporation, Chicago, 16, Illinois, U.S.A.

*For all goods, but not including heel-ball or essential oils or any goods of the same description* (3)

ASTRAL, 815,431, by D. & W. Gibbs, Ltd., London, W.1.

*For preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; soaps; perfumes; cosmetic preparations; hair lotions and dentifrices* (3)

SONATA, 815,590, by Lever Brothers, Port Sunlight, Ltd., Port Sunlight, Chcs.

*For soaps, perfumes and non-medicated toilet preparations, essential oils, cosmetics, preparations for the hair, dentifrices and toilet articles* (3)

CONQUITA, 817,394, by Balfour Laboratories, Ltd., Sheffield, 9.

*For lipsticks* (3)

LENTHERIC SUPER STAR, 817,754, by Lenthentic, Ltd., London, W.1.

*For detergents, cleaning, polishing and abrasive preparations, all for sale in the United Kingdom otherwise than for export, but not excluding goods for export to the Irish Republic* (3)

RIMFLO, 818,211, by Reckitt & Sons, Ltd., Hull, Yorks.

*For medicated preparations and substances; and pharmaceutical preparations and substances* (5)

DE WITT'S PUFFITON, 815,538, by E. C. De Witt & Co., Ltd., Croydon, Surrey.

*For hair lotions; hair fixatives and shampoos* (3)

TARGET, 820,341, by Gorney, Ltd., Leeds, 13. *For parasitocides, insecticides, fungicides, herbicides, germicides, bactericides, pesticides, vermicides, acaricides, nematocides, disinfectants; and preparations in the form of captans for addition to feeding stuffs for animals and poultry, for inhibiting the activity of intestinal organisms in animals and poultry; but not including germicides or disinfectants for human use* (5)

ORTHOCIDE, 764,049, by California Chemical Co., Wilmington, Delaware, and at San Francisco, California, U.S.A.

*For pharmaceutical, veterinary and sanitary substances, medical and surgical plasters, materials prepared for bandaging, disinfectants, and preparations for killing weeds and destroying vermin* (5)

ESUCOS, 801,474, by Union Chimique Belge, S.A., Brussels, Belgium.

*For pharmaceutical preparations for depressing the cholesterol content in the blood* (5)

DEPRONIN, 806,213, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

*For sanitary towels and sanitary tampons* (5)

SAN PACT, 808,313, by Southalls (Birmingham), Ltd., Birmingham, 8.

*For preparations for killing weeds and destroying vermin; insecticides* (5)

TAMARON, 809,701, by Farbenfabriken Bayer, A.G., Leverkusen, 22c, Germany.

*For pharmaceutical preparations, preparations for destroying animals, preparations for killing vegetation, and disinfectants, all in tablet form* (5)

Device, 810,580, by Professor Dr. Med. Mueh A.G., Chemisch-Pharmazeutische Fabrik, Bad-Soden/Taunus, Germany.

*For pharmaceutical, veterinary and sanitary preparations and substances* (5)

NITRAL, 809,754, by A/S Apothekernes Laboratorium for Specialpraeparater, Oslo, Norway.

*For pharmaceutical preparations and substances for use in the treatment of coughs* (5)

PECTUSSIN, 810,608, by Taeschner & Co., Kipfenberg/Bayern, Germany.

*For pharmaceutical preparations and substances for human and veterinary use* (5)

LORDANT, 810,884, Device, 811,506, by Winthrop Group, Ltd., Surbiton, Surrey.

*For insecticides, larvicides, fungicides and insecticidal fruit dips; preparations for killing weeds and destroying vermin* (5)

GRAMEVIN, 814,689, by Shell International Petroleum Co., Ltd., London, E.C.3.

## CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

A new anthelmintic thienium (N:N-Dimethyl-N-2 - phenoxyethyl - N - 2' - thenylammonium) p-chlorobenzene sulphonate: its activity against hookworms and roundworms in the dog. *Vet. Rec.*, August 5.

NEW ANALGESIC INDUCTION AGENT. The effects of, on goats. *Vet. Rec.*, August 5.

N,N' - ALKYLENE - bis(ACRYLAMIDES), N - (ACRYLAMIDOMETHYL)-3-HALOPROPIONAMIDES and related compounds: a new series of anti-tumour agents. *Nature*, August 5.

LEAF COLOUR. Measurement of. *Nature*, August 5.

S-BENZOYLTHIAMINE O-MONOPHOSPHATE: A new thiamine derivative. *Science*, July 21.

THE NEW PENICILLINS. *New Scientist*, August 3.

IPOMOEA: an anatomical study. *J. Pharm. Pharmacol.*, August

STRYCHNINE AND BRUCINE, method for the quantitative estimation of, in nux vomica by paper electrophoresis. *J. Pharm. Pharmacol.*, August.

ERGOMETRY in the diagnosis of myasthenia gravis. *Lancet*, August 5.

LABORATORY DIAGNOSIS of macroglobulinaemia. *Lancet*, August 5.

NEW DRUGS. The testing of, and other therapeutic agents. *J. Amer. med. Ass.*, July 8.

DOCTORS, DRUGS, and names. *J. Amer. med. Ass.*, July 8.

DRUG EFFECTS. Forecasting in man from experimental data. *J. Amer. med. Ass.*, July 8.

WHY we rarely know about drugs. *J. Amer. med. Ass.*, July 8.

FATTY ACIDS and coronary disease. *Practitioner*, August.

## CHRISTMAS SHOWROOMS

The following are announced:—

**BOURJOIS, LTD.**, 2 Old Bond Street, London, W.1.

**KENTON:** Rest hotel, August 14-18.

**GRIMSBY:** Yarborough hotel, August 15-17.

**SOUTHAMPTON:** Polygon hotel, August 15-18.

**SOUTHEND-ON-SEA:** Victoria hotel, August 21-25.

**HULL:** Royal Station hotel, August 22-24.

**NOTTINGHAM:** County hotel, August 28 to September 1.

**LEEDS:** Griffin hotel, August 28 to September 1.

**BRISTOL:** Royal hotel, August 28 to September 1.

**LIVERPOOL:** Adelphi hotel, August 28 to September 1.

**CARDIFF:** Royal hotel, August 28 to September 1.

**CHATHAM:** Sun hotel, August 29-31.

**CROYDON:** Greyhound hotel, September 4-8.

**NEWCASTLE-ON-TYNE:** Royal Turks Head hotel, September 4-8.

**MANCHESTER:** Midland hotel, September 4-8.

**GLASGOW:** St. Enoch hotel, September 4-8.

**BIRMINGHAM:** Midland hotel, September 4-8.

**NORWICH:** Castle hotel, September 11-15.

**EDINBURGH:** North British hotel, September 11-15.

**BELFAST:** Grand Central hotel, September 11-15.

## TELEVISION

Figures in the columns represent number of appearances of the product during the week.

August 20-26	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward
Aidex ..	1	1	1	1	1	1	—	—	—	1
Alka-Seltzer ..	6	17	12	10	5	6	5	4	6	2
Amami ..	3	2	4	6	—	—	4	3	4	—
Anadin ..	2	—	1	6	5	1	2	5	—	—
Andrews liver salt ..	2	3	3	3	3	3	3	3	3	3
Anne French ..	—	—	1	—	—	—	—	—	—	—
Askit powders ..	—	—	—	12	—	—	—	—	—	—
Bisodol ..	—	—	—	5	—	4	—	—	3	—
Body Mist ..	3	3	—	2	3	3	—	1	—	—
Bristow Shampoo ..	1	1	2	—	3	4	—	3	—	1
Brylcreem ..	2	2	3	5	4	2	1	2	3	3
Cooper's aerosols ..	—	—	—	1	—	—	—	—	—	—
Cuticura ..	—	2	—	2	—	—	—	—	—	—
Delrosa ..	—	—	—	—	—	—	3	—	2	—
Delsey ..	1	2	3	—	—	—	4	3	3	—
Domestos ..	4	3	4	4	3	3	3	3	3	4
Eno's fruit salt ..	2	2	2	2	2	2	2	2	2	2
Euthymol ..	—	1	1	1	1	1	—	—	3	—
Ex-Lax ..	2	—	—	—	—	—	—	—	—	—
Freezone ..	—	—	1	—	—	—	1	—	—	—
Hiltone ..	1	—	2	4	—	—	3	—	—	—
Immac ..	—	1	2	2	2	1	1	2	1	—
Imperial Leather soap ..	3	—	—	—	—	—	—	—	—	—
Kleenex ..	—	1	1	3	1	1	2	2	1	1
Lanospray ..	3	2	2	2	2	2	3	3	2	2
Macleans tooth-paste ..	1	1	3	7	6	6	5	3	3	3
Mark Vardy ..	—	—	4	—	—	—	—	—	—	—
Milk of Magnesia tablets ..	3	1	1	—	—	1	3	1	—	1
One-two spray ..	—	—	—	3	4	3	3	4	—	—
Phillips tooth-paste ..	2	—	—	—	—	—	—	—	—	—
Poppet ..	—	4	—	—	2	4	—	4	—	4
Pretty Quick ..	—	—	—	4	—	—	—	—	—	—
Q-tips ..	—	—	—	—	—	2	—	—	—	—
Rennies ..	2	2	3	3	3	6	3	3	—	4
Rinstead pastilles ..	1	2	1	2	1	2	1	1	—	—
Schick shavers ..	1	1	—	—	—	—	—	—	—	—
Sebbix ..	—	1	1	1	1	1	1	1	1	1
Sek ..	—	1	1	—	—	—	—	—	—	—
Silvikrin pure ..	—	1	1	—	—	—	—	—	—	—
hair cream ..	3	—	1	3	2	5	1	3	2	3
shampoo ..	2	3	2	3	4	3	3	3	3	3
Span shampoo ..	5	—	—	—	—	4	—	—	—	—
Star spray ..	1	—	—	—	1	1	—	—	—	—
Unic shavers ..	—	3	2	—	—	—	—	—	—	—
Valderma ..	3	1	2	3	2	3	2	3	—	—
Valpeda ..	—	1	—	3	—	—	—	—	—	—
Veet "O" ..	3	2	2	—	—	—	—	—	—	—
Vosene ..	2	1	1	1	1	1	—	1	1	1
Winspray ..	—	3	—	—	—	—	—	—	—	—

**MIDDLESBROUGH:** Corporation hotel, September 12-14.

**EXETER:** Rougemont hotel, September 12-15.

**BRIGHTON:** Grand hotel, September 18-22.

**4711 (SCOTT & BOWNE, LTD.), 50 Upper Brook Street, London, W.1.**

**LIVERPOOL:** Adelphi hotel, August 21-25.

**GLASGOW:** St. Enoch's hotel, August 28 to September 1.

**CARDIFF:** Royal hotel, August 28 to September 1.

**LEEDS:** Queen's hotel, September 4-8.

**BELFAST:** Kensington hotel, September 11-15.

**MANCHESTER:** Midland hotel, September 11-15.

**NEWCASTLE-ON-TYNE:** Royal Turks Head hotel, September 11-15.

**BIRMINGHAM:** Grand hotel, September 11-15.

**NOTTINGHAM:** County hotel, September 18-22.



**REDESIGNED:** The new bottle and carton for Derbac medicated shampoo (makers: Roberts Windsor, Ltd., The Acre, Windsor, Berks).

## PRINT AND PUBLICITY

### DISPLAY MATERIAL

**BEECHAM PHARMACEUTICALS, LTD.**, St. Helens, Lancs: Formula 21. Counter leaflet.

**DOMESTOS, LTD.**, College Works, Albion Road, Newcastle-on-Tyne: Counter dispenser with illustrated cards aimed at child hygiene. Headed "Wash your hands now," the cards have a rhyme reminding children to wash their hands before meals; intended for hanging on toilet doors. For Scotland and Northern Ireland, the cards are replaced by 8-p. illustrated booklets headed "Six pairs of forgotten hands," with six rhymes on the theme of washing hands before eating.

**PHILIPS ELECTRICAL, LTD.**, Century House, Shaftesbury Avenue, London, W.C.2: Philips electric blankets. Counter display stand and leaflet dispenser.

### PRESS ADVERTISING

**THE ASSOCIATION OF FRENCH PERFUMERS**, 74 Brook Street, London, W.1: Perfumes of the fifteen member companies — Caron, Chanel, Coty, Guerlain, Lancome, Lanvin, Le Galion, Lubin and Houbigant, Marquay, Molyneux, Patou, Revillon, Worth and Millot. In *Harper's Bazaar* and beauty columns of other women's magazines, October-December.

**BEECHAM FOODS, LTD.**, Beecham House, Great West Road, Brentford, Middlesex: Ribena pastilles. In national dailies and two women's magazines, October, until March 1962.

**M. & R. NORTON, LTD.**, 9 Park Hill, London, S.W.4: Neutrogena. In *Woman and Beauty*, *Vanity Fair*, *Vogue*, *She*, *Lady*, *Harper's Bazaar*, *Family Doctor*, *Nursery World*, *Mother and Baby*, *British Medical Journal*, *Lancet*, *Floid*, *In Man about Town*; *Floidam*, *In Vogue* beauty book, *Queen*, *Lady*.

**SANITAS GROUP SALES, LTD.**, Sanitas House, Clapham Road, London, S.W.9: Woodward's "gripe water." In *News of the World*, *Sunday Pictorial*, *Woman's Own*, *Woman*, *Woman's Realm*, *Woman's Mirror*, *Mother and Baby*,

*Modern Woman*, *Good Housekeeping*, *Everywoman*, *Woman and Home*, *Mother, Parents*, *Maternity News*, *Nursery World*, *Tit-Bits*, *Thomson's Weekly News*.

### PUBLICATIONS

#### Booklets and Leaflets

**AGFA, LTD.**, 27 Regent Street, London, S.W.1: "Agfa Illustrated — holiday season 1961." Pp. 12.

**BRITISH TITAN PRODUCTS CO., LTD.**, 10 Stratton Street, London, W.1: "The Estimation of TiO<sub>2</sub> in Paper." Pp. 12; "Tioxide A-PP—a new anatase pigment for plastics and leather." Pp. 4.

**HEATH & HEATHER, LTD.**, St. Albans, Herts: "Cooking with a Difference, and Home Wine Making." Pp. 14. (Price 6d.)

**KODAK, LTD.**, Kingsway, London, W.C.2: Kodak trade circular for the professional user, No. 6. July. Pp. 8. New goods include the Retina reflex III camera, Tri-X Pan professional film (with new emulsion), Ektachrome film processing chemicals.

**LIGHTNIN MIXERS, LTD.**, Poynton, Ches: "Lightnin Mixers" — process industries catalogue B-109. Pp. 16.

**PRIZER, LTD.**, Sandwich, Kent: "Polio myelitis Vaccination . . . increasing acceptance." Pp. 30 + vii.

**CRODA, LTD.**, Cowick Hall, Snaith, Goole, Yorks: "Polychol Non-ionic Surfactants . . . a range of polyoxyethylene derivatives of lanolin alcohols"—technical data sheet. Pp. 8.

### Catalogues

**KODAK, LTD.**, Kingsway, London, W.C.2: Kodak chemicals for the professional photographer. Pp. 28.

### Periodicals

**BRITISH CELLOPHANE, LTD.**, 9 Henrietta Place, London, W.1: *Merchandising Vision*, Vol. 6, No. 7. July. Pp. 22.

**BRUCE, STARKE & CO., LTD.**, 5 Fenchurch Street, London, E.C.3: *Dragoco Report*, No. 7, 1961. Pp. 14.

**DU PONT DE NEMOURS INTERNATIONAL, S.A.**, 81 route de l'Aire, Geneva, Switzerland: *Du Pont Magazine*, Vol. 55, No. 2. Pp. 32.

**MERCK, SHARP & DOHME, LTD.**, Hoddesdon, Herts: *Seminar International*, Vol. 10, No. 1. Pp. 24.

**THE PULLIN OPTICAL CO., LTD.**, Ellis House, Aintree Road, Perivale, Middlesex: *Pullin-Newsletter*, Vol. 9, No. 5. July. Pp. 6.

**TIN RESEARCH INSTITUTE**, Fraser Road, Greenford, Middlesex: *Tin and its Uses*, No. 52. Pp. 16.

### Price Lists

**KODAK, LTD.**, Kingsway, London, W.C.2: Price list of 8- and 16-mm. cine film services. Pp. 6; Abridged price list of films, plates, papers, cameras, accessories. Pp. 6.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Wednesday, August 16

**BIRMINGHAM PHARMACEUTICAL ASSOCIATION**, cricket ground, Saracen's Head hotel, Stratford Road, Shirley, at 2.30 p.m. Sports day. Admission by ticket only. (Alternative arrangements have been made at Shirley Institute in the event of rain.)

**MANCHESTER AND DISTRICT PHARMACEUTICAL GOLFING SOCIETY**, Mere golf club, Ladies' Day. Woolley trophy and prize.

**SOUTH LONDON AND SURREY PHARMACEUTISTS' GOLFING SOCIETY**, Kingswood golf club, Tadworth, at 1.30 p.m. Stableford competition for Glyne Roberts prize, UCAL prize, G. Penman prize and others.

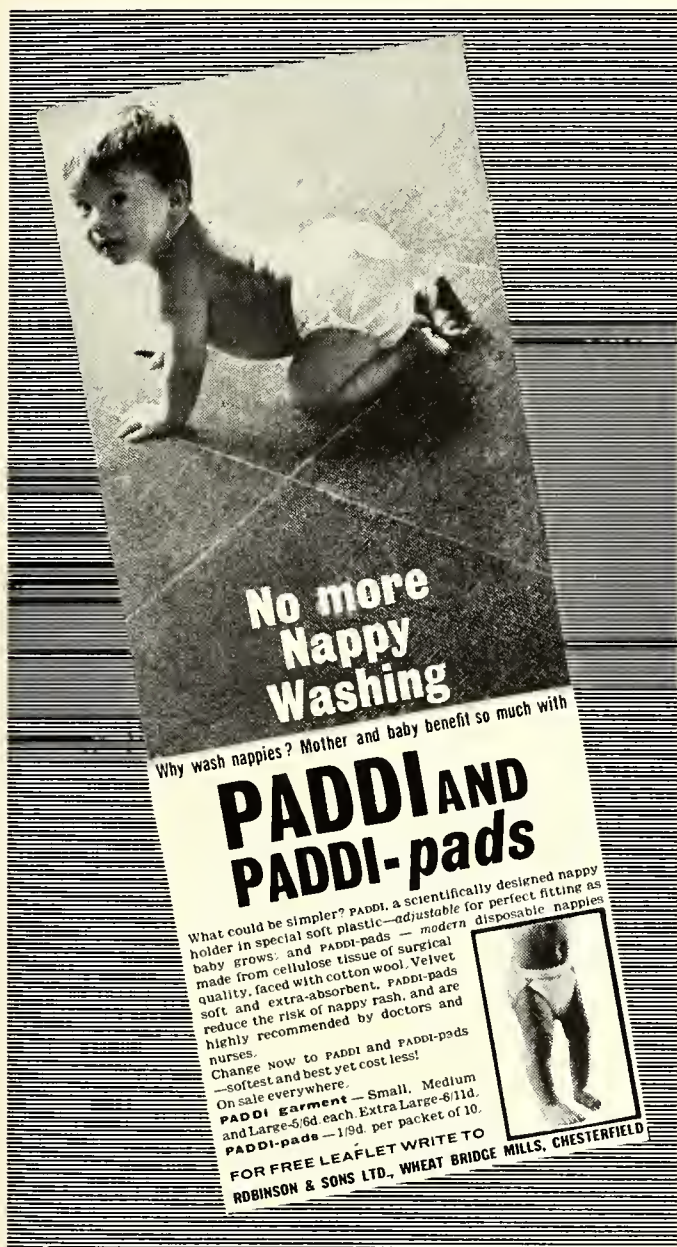
### Advance Information

**BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE**, Norwich, August 30 to September 6. Annual meeting.

**NATIONAL BUSINESS EFFICIENCY EXHIBITION**, Olympia, London, W.14, October 3-11.

**INTERNATIONAL PACKAGING EXHIBITION**, Olympia, London, W.14, September 5-15.

**EFFLUENT AND WATER TREATMENT EXHIBITION AND CONVENTION**, Seymour Hall, London, W.1. October 31 to November 3.



**No more Nappy Washing**

Why wash nappies? Mother and baby benefit so much with

**PADDI AND PADDI-pads**

What could be simpler? PADDI, a scientifically designed nappy holder in special soft plastic—adjustable for perfect fitting as baby grows; and PADDI-pads — modern disposable nappies made from cellulose tissue of surgical quality, faced with cotton wool. Velvet soft and extra-absorbent. PADDI-pads reduce the risk of nappy rash, and are highly recommended by doctors and nurses.

Change now to PADDI and PADDI-pads — softest and best yet cost less!

On sale everywhere.

**PADDI Garment** — Small, Medium and Large—5/6d. each. Extra Large—6/11d.

**PADDI-pads** — 1/9d. per packet of 10.

**FOR FREE LEAFLET WRITE TO**  
ROBINSON & SONS LTD., WHEAT BRIDGE MILLS, CHESTERFIELD

## Eye-catching advertisements attract modern mothers to

### **PADDI AND PADDI-pads**

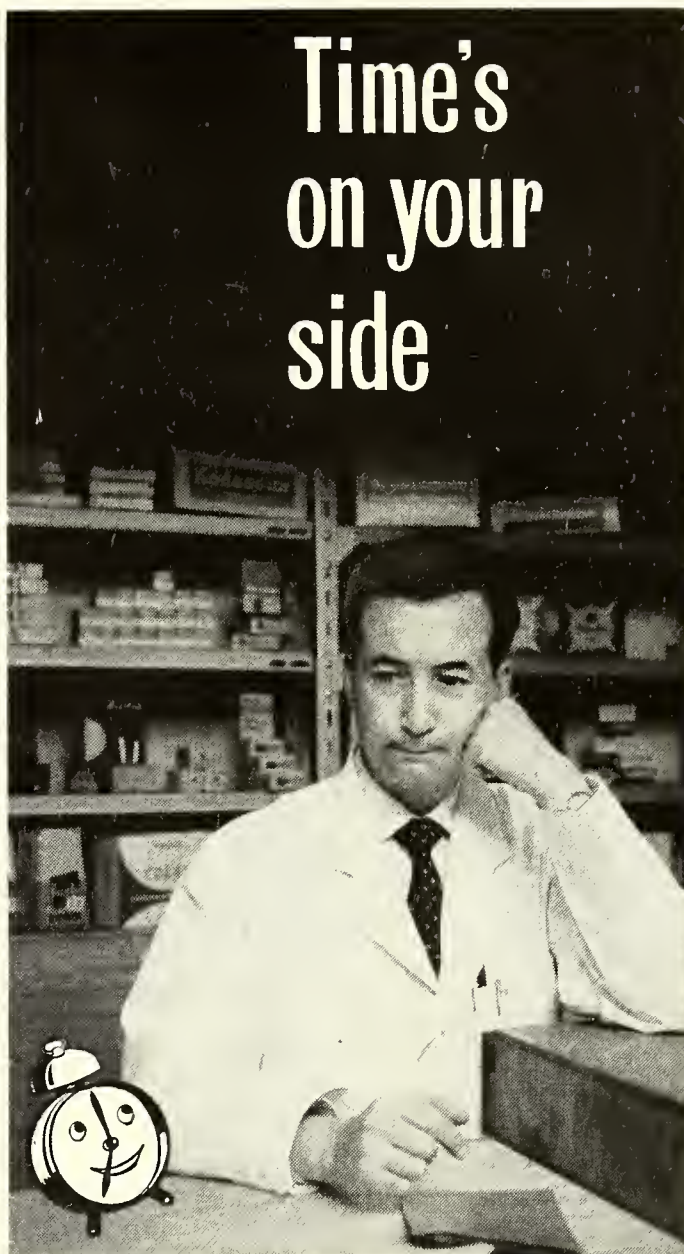
"No more nappy washing" is wonderful news for busy mothers. No wonder they're switching to PADDI and PADDI-pads—the *adjustable* nappy-holder and *disposable* pads. So soft and smooth for baby's skin — so simple for mother.

They will see the advertisements for PADDI and PADDI-pads in many widely read publications — *make sure you are ready to meet the growing demand.*

**PADDI garment** Selling price: 5/6d. each.

**PADDI-PADS** Selling price: 1/9d. per packet of 10.

**ROBINSON & SONS LIMITED**  
WHEAT BRIDGE MILLS, CHESTERFIELD



**Time's on your side**

Even after an exhausting day don't make things worse by cursing yourself for forgetting that vital order . . . there's still time if you 'phone it through to Fallowfields. It makes no difference whether it's late evening, midnight or early morning, Fallowfields will still be in action.

Ring LAngham 9521 and know that time's on your side when you deal with Fallowfields.

ALL ILFORD AND KODAK SUPPLIES TO APPROVED DEALERS



Please put my name on your mailing list

To: **JONATHAN FALLOWFIELD LTD.,**  
**DEPARTMENT CD37**

**74 NEWMAN STREET, LONDON, W.1.**

**NAME** .....

**ADDRESS** .....

(CAPITALS PLEASE)

## Bulk Suppliers of DISINFECTANTS & ANTISEPTICS

### CARBOLIC DISINFECTANTS

Black & White types—all strengths

### MARKET & FARM DISINFECTANTS

Approved for use under Diseases of Animals Orders

### PINE & AROMATIC DISINFECTANTS

LYSOL B.P.

### QUATERNARY AMMONIUM COMPOUNDS

ROXENOL B.P., etc.

Packed in 1, 5, 10 and 40 gallon drums

### PRINTAR INDUSTRIES LTD.

BRETENHAM HOUSE, LANCASTER PLACE,  
STRAND, LONDON, W.C.2.

Telephone: TEMPLE BAR 5801 (8 lines)

Works:- PRINCE REGENT'S WHARF, SILVERTOWN, LONDON, E.16

Telephone: ALBERT DOCK 3311

## GRANOSE ROLLS

A QUICK SELLING  
SLIMMING LINE



Have you adequate stocks  
of these popular rolls?

Demand is growing and, on terms of 25% or  
more, they make a most profitable line.

### GRANOSE FOODS LTD.

STANBOROUGH PARK, WATFORD, HERTFORDSHIRE

## ILODERM

*a unique self-sterile Ointment that compares with  
no other in the treatment of:—*

**BURNS •**  
**BEDSORES •**  
**IMPETIGO •**  
**NAPKIN RASH •**  
**DERMATITIS •**  
**CRACKED NIPPLES •**

*ask your usual wholesale House for supplies*

## ILON LABORATORIES

LORNE STREET. HAMILTON. LANARKSHIRE

TURN BIG PROFITS WITH THE



# Garrard

## DISPLAY TURNTABLE

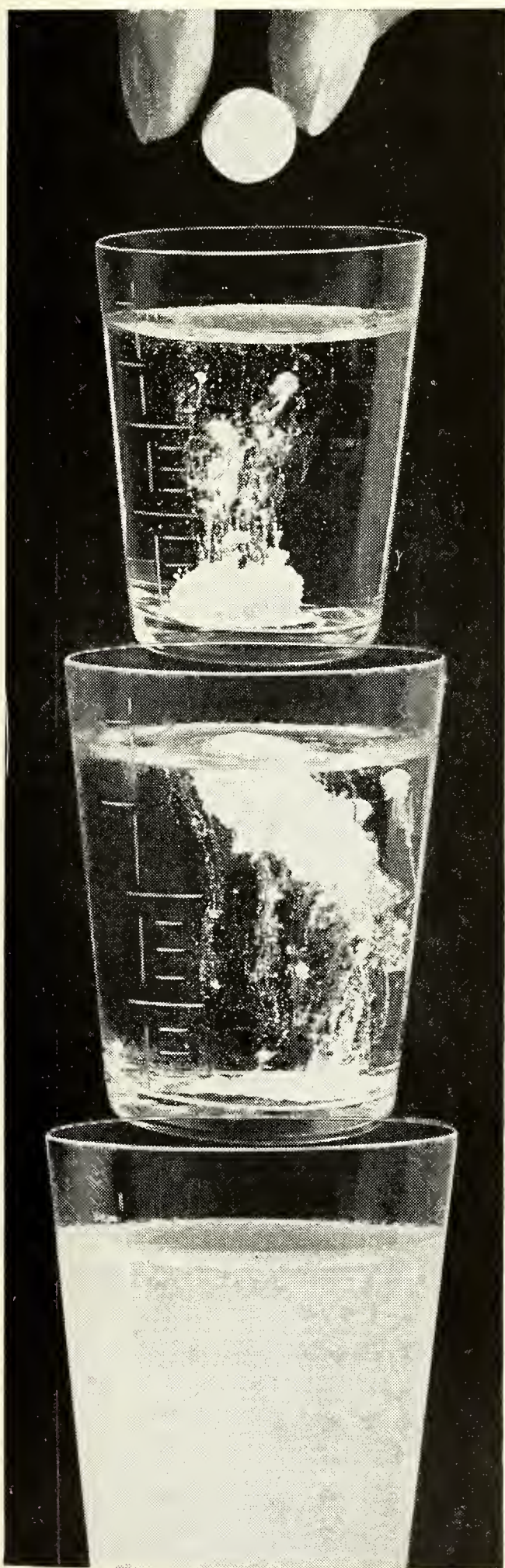
NEAT · EFFICIENT · ROBUST · ONLY 6" DIAMETER

Runs for long periods without attention.  
Ideal for counter or window. Carries up  
to 6 lbs. Supplied clockwise or anti-clock-  
wise. 200/250 volts A.C. (Orders treated  
as clockwise unless otherwise specified.)

# 50/-

11 or over 47/6  
101 or over 45/-

FROM USUAL WHOLESALERS OR WRITE DIRECT  
**THE GARRARD ENG. & MFG. CO. LTD.**  
NEWCASTLEST. SWINDON, WILTS. Tel: SWINDON 5381 Telex: 44-271



# Solprin



NEUTRAL SOLUBLE ASPIRIN

# Codis



SOLUBLE ASPIRIN, PHENACETIN AND CODEINE

# Cafdis



SOLUBLE ASPIRIN, PHENACETIN AND CAFFEINE

## *Their place to-day*

General acceptance won by Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently, all three are quick acting and are far less likely to upset the stomach.

Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.

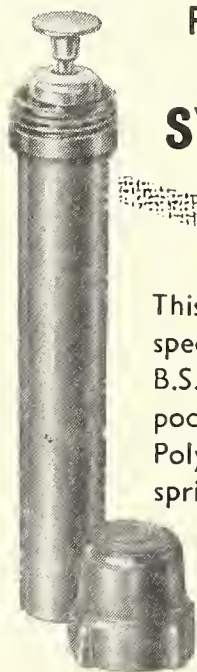
RECKITT & SONS LTD.  
PHARMACEUTICAL DEPARTMENT, HULL

# Quinine Sulphate B.P. 1953 & 1932



THE BRITISH  
DYEWOOD COMPANY LTD.  
19 St. Vincent Place,  
Glasgow, C.I.

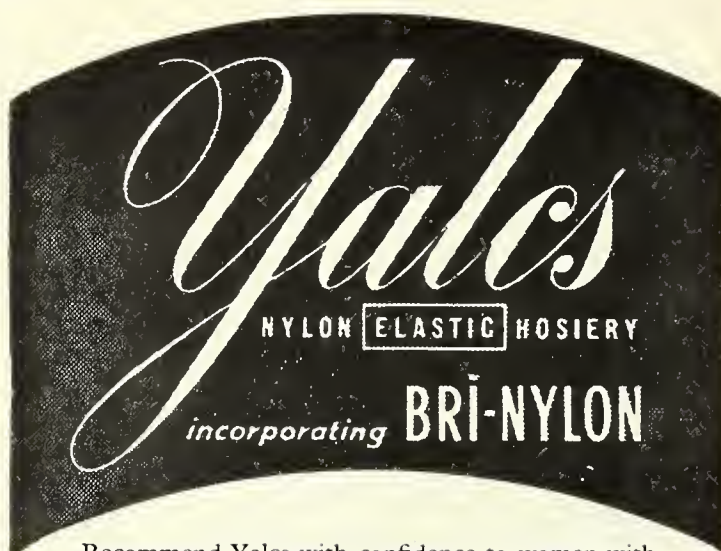
## New! Pocket-Size INSULIN SYRINGE CASE



This new, plastic syringe case, specially designed for the new B.S.I. 1619 Insulin Syringe, is pocket-size and spirit-proof. Polythene washer and retaining spring hold syringe firmly in the spirit. For syringes up to 2cc size.



**SURGICAL EQUIPMENT SUPPLIES LTD**  
WESTFIELDS ROAD, LONDON, W.3



Recommend Yalcs with confidence to women with actual or incipient varicosities. Yalcs give all the therapeutic support of true two-way stretch—without putting a strain on vanity!

Yalcs are available ex stock—at full trade discount—in three types:

**SUPERMESH** Retailing at **63/-** pair

*Superfine* Retailing at **63/-** pair

**SERVICE** Retailing at **53/3** pair

Yalcs Service may be supplied against N.H.S. prescription in Nylon Elastic Yarn (Lightweight) Two-Way stretch.

Yalcs Elastic Socks for Men also available.

Display material, leaflets, shade cards available from Sales Agents:

**GLENSIDE (LONDON) LTD, 37 Percy St, London, W1**

## 6 ft. DISPLAY COUNTER



**£27. 10. 0.**

or £6. 10. 0 down and 12 monthly payments of £2.

Make the most of your displays with this handsome counter. Sliding glass doors and adjustable shelf. Light oak finish.

Dimensions: 72" long, 36" high (including 6" legs), 24" deep.

Delivered free by our own van to all areas

Send for Illustrated Brochure

**THIRSK**

EQUIPMENT COMPANY LIMITED. Dept. C.D., 741-743 Garratt Lane, London, S.W.17. Tel: WIMbledon 2291 (4 lines)



The original American beverage, imported. Aromatic and light-hearted. Made from bran, wheat, molasses.

# POSTUM

100%  
coffee-free

for the over-nerved

Retail Price  
4 oz. 3/11d

National advertising supports your recommending it for a few weeks' trial—to your customers' blessing and your success.



**G. COSTA & CO. LTD**

STAFFORDSHIRE ST. LONDON S.E.15 • Tel: NEW Cross 3456  
Also at:- 2 Canning St. Edinburgh • Tel: Fountainbridge 7461

A SURE  
SELLER IN  
'61... *Andy*

NYLON PILE MITT

Already popular, a soft hygienic mitt ideal for bathing baby and for women's deep cleansing beauty routine.

In Pink and Blue.

Retails at only 5/11

Trade Price 48/- per doz.

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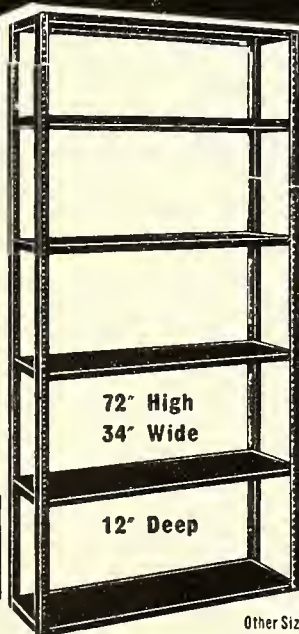
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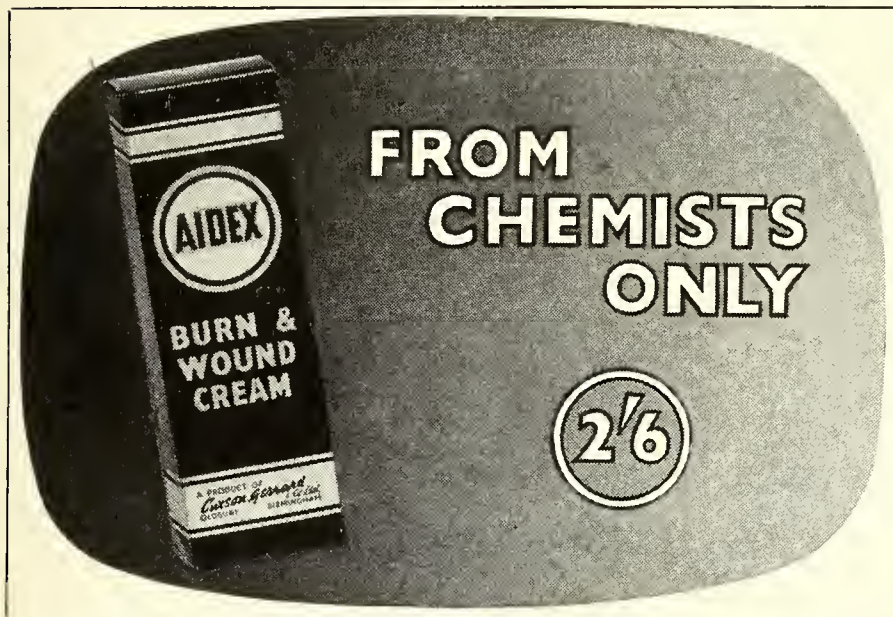
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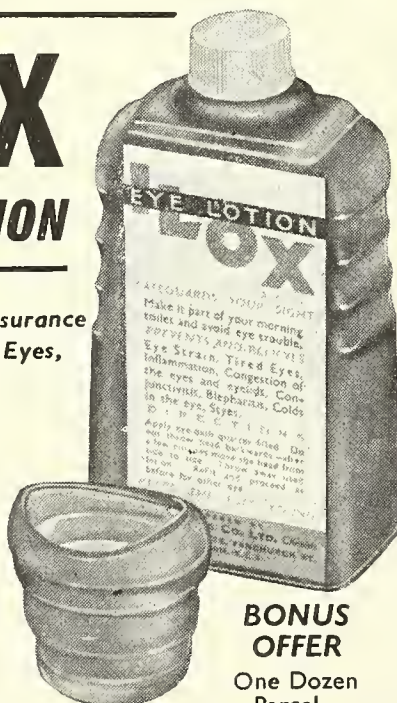
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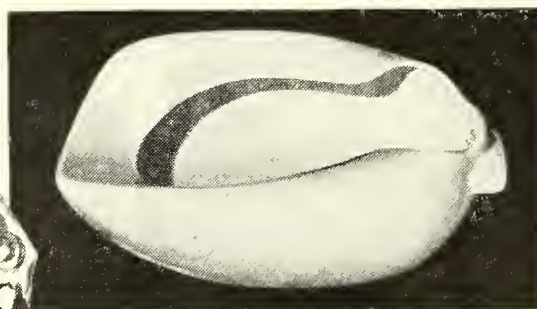
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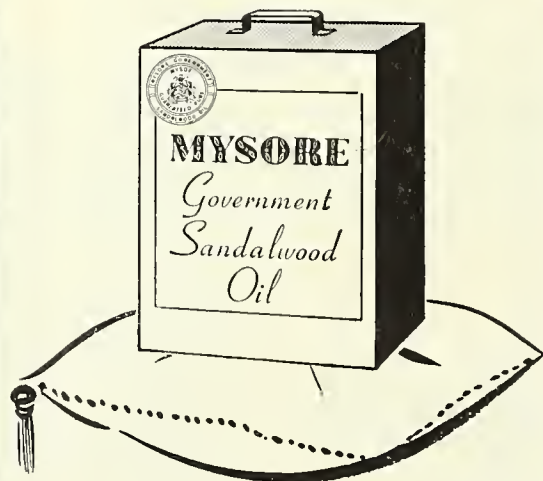
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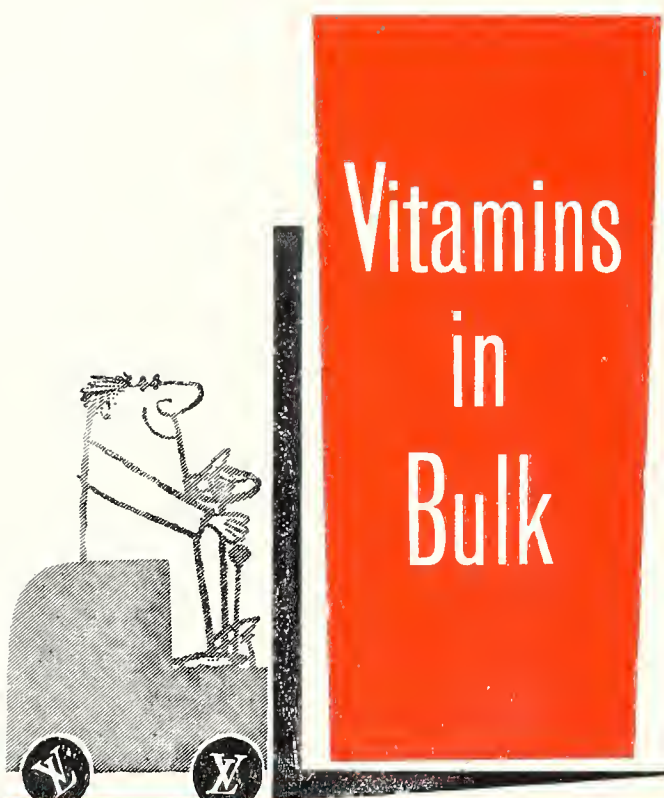
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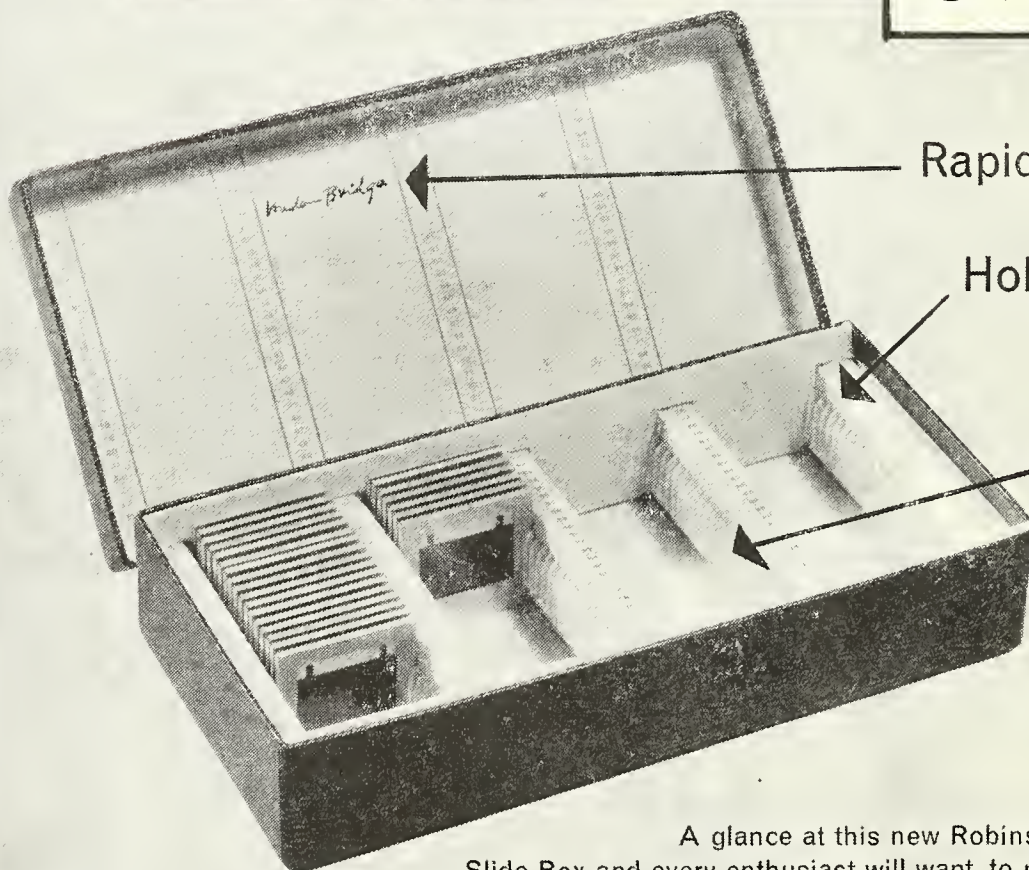
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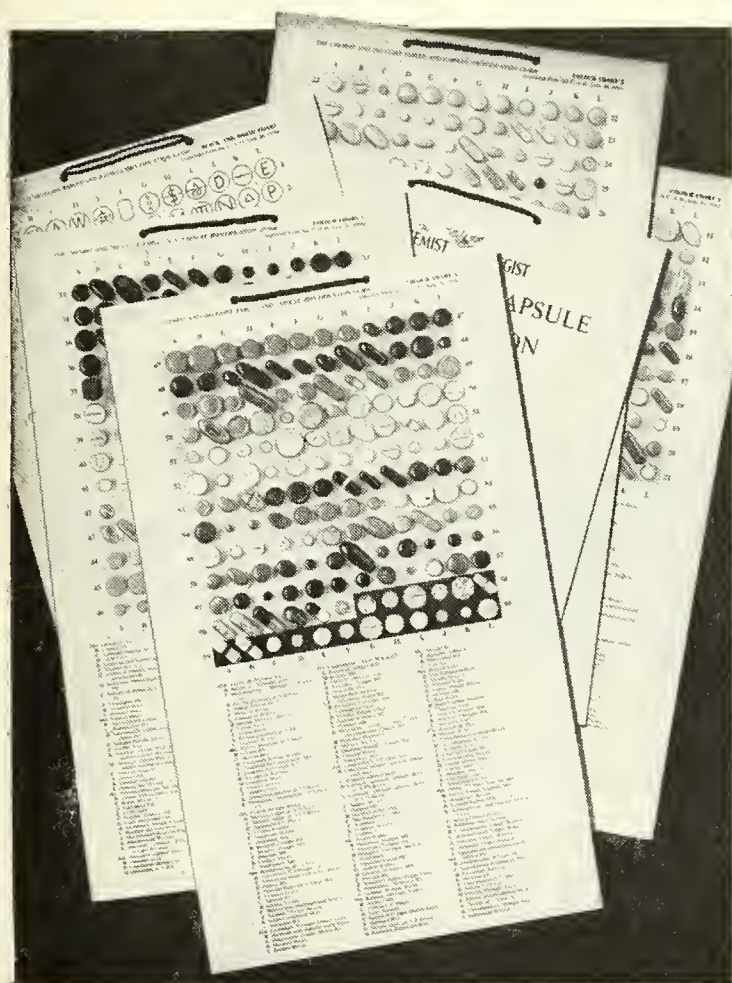
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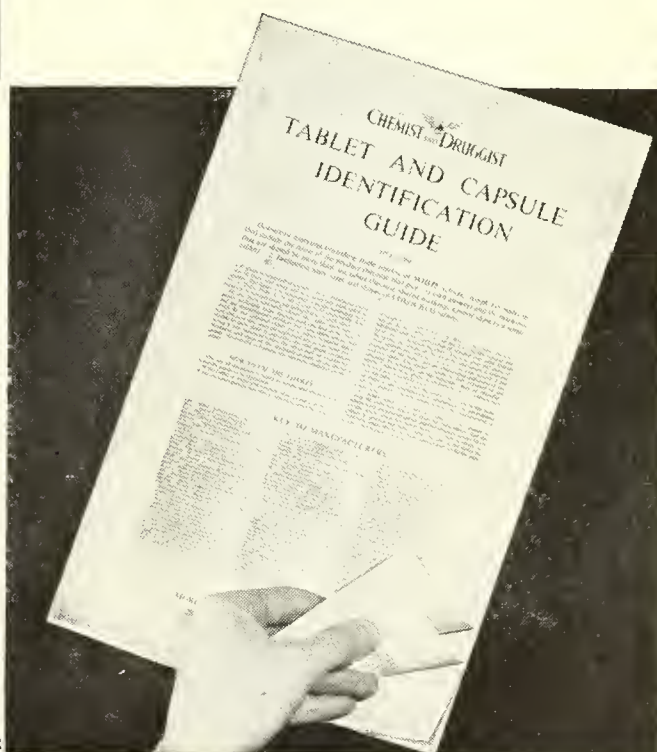
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C 6788

### Appointments—Continued

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(The Portsmouth area and the Isle of Wight)

#### NEWPORT

(Monmouthshire, the Forest of Dean and the Stroud/Chipping Sodbury area of Gloucestershire)

#### CARDIFF

(The Cardiff area)

#### LIVERPOOL

(The Liverpool area)

#### MIDDLESBROUGH

(Middlesbrough and the surrounding districts)

#### PERTH/DUNDEE

(Perthshire, Kinross-shire, part Angus and part Fife)

It is expected that the successful applicants will have previous experience of selling through these distributive channels and will be between 23 and 35 years of age. Remuneration is by salary and efficiency bonus. A Company car is provided, home garage and lunch allowances are paid and all other expenses are refunded. There is a contributory Pension Scheme with Life Assurance benefits. Applications, giving brief details, should be addressed to the:

Personnel Officer,  
NEWTON CHAMBERS & CO., LTD.,  
Thorncliffe, Sheffield

C 6783

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**MANAGER** required for expanding and progressive chemist wholesale house, E.C.1 area. Must be active, with initiative. Thorough knowledge of general sundries. No Drugs. Experienced in checking and staff control. £1,000 per annum. Phone: CLE. 5081. C 4031

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**TECHNICAL ASSISTANT TO SALES DIRECTOR.** A vacancy occurs in a medium-sized pharmaceutical house, for a young graduate pharmacist or A.R.I.C. The post calls for drive and enthusiasm and an ability to tackle a wide variety of problems associated with product development, packaging, technical management and selling. London area. Salary according to experience. Replies to the Sales Director, Box C 6720.

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Representative calling on retail chemists required to take over the territory, including existing accounts. Scope and prospects of increase because of National advertising shortly. Please apply in confidence to the Sales Manager.

**ERNEST JACKSON & CO. LTD.**  
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**LOCUM PH.C.** still has a few dates free. Experience in both retail and hospital. Able to take charge. Box C 4018.

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**PHARMACIST**, 35, widely experienced, including retail, hospital, and manufacturing, seeks interesting and progressive administrative/executive type position in industry, or possibly wholesale. Anything of similar nature considered. Southern England preferred. Box C 4034.

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C 438

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The Wigan and Leigh Hospital Management Committee, acting on behalf of the other Management Committees concerned, does not bind itself to accept the lowest or any tender.

C. B. LINFOOT,  
Secretary.

"Knowsley House,"  
Wigan Lane,  
Wigan, Lanes.

C 6773

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COUNCIL**

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**MATERNITY OUTFITS AND PADS.**

**COD LIVER OIL PRODUCTS.**

**DENTAL CONSUMABLE STORES AND INSTRUMENTS.**

Further particulars, and Forms of Tender and Conditions of Contract, may be obtained from the County Medical Officer, Shire Hall, Nottingham. Completed tenders, in the envelopes to be supplied, should be received by me not later than 10 a.m. on Friday, 8th November, 1961.

A. R. DAVIS,  
Clerk of the County Council.

County Hall,  
West Bridgford,  
Nottingham.

C 6793

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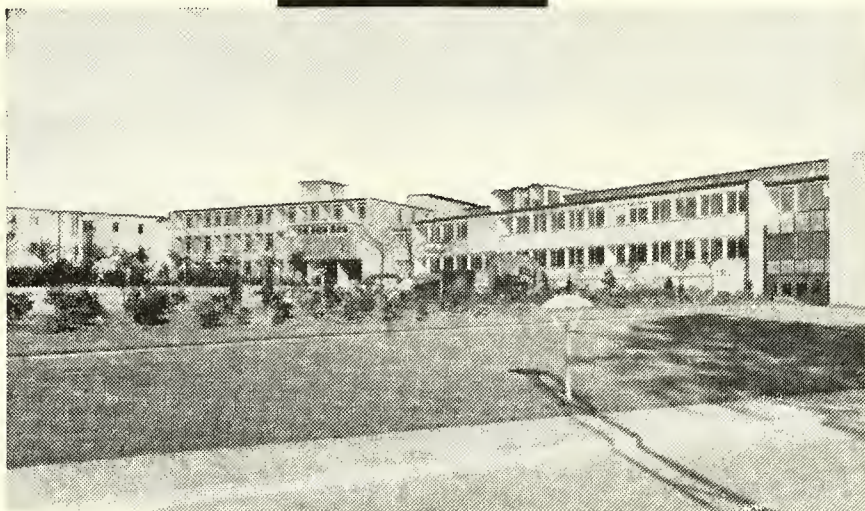
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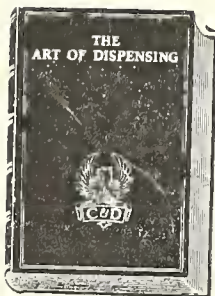
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